Page 1

FtsZ-mt2 consensus2 Map MPD (1 > 1423) Site and Sequence

Circular, Certain Sites Only, Standard Genetic Code Enzymes: 50 of 502 enzymes (Filtered)

GATGGGGATATCCCGCCATGAAAGCTGCGGCGATGGCGGCTGCTACGTGCCCGCCAGACCTCCCAGTCCGCALTCA CTACCSCTATAGGGCGTACTTTCGACGCCGCTACCGCGACGATGCACGGGCGGTCTGGAGGGTCAGGCGGTGAGT

met Aia lie Ser Arg Met Lys Aia Aia Aia Met Aia Leu Leu Arg Aia Arg Gin Thr Ser Gin Ser Aia Thr Gin

Pve

130

55 ACACCICGCCTTCTCTACTGAAGCCACTGATGCTGCAGCTGCCGTTACGCATGGGCTTTAAAAAGGCTCGAAA TSTGGAGCGSAAGAGATGACTTCGGTGACTACGACGTCGACGGCGAATGCGTACCCGAAATTTTTCCGAGCTTT

His Leu ala Phe Ser Thr Glu Ala Thr Asp Ala Ala Ala Ala Ala Leu Arg Met Gly Phe Lys Lys Ala Arg Lys

ABACGAGGATGGCGGTGTGAAAGTGGGGCTTGGAGGCAGAGCCCGATTCACCAACAGATGTGAGCGCCGTTTCGAC 225 TETGETECTACEGCEACACTTTEACECCGACETTECGTETEGGGETAAGTGGTTGTETACACTEGEGGAAAGETG

Asp Giu Asp Giy Giy Yai Lys Vai Giy Leu Giu Ala Giu Pro Asp Ser Pro Thr Asp Vai Ser Ala Vai Ser Thr

GCCAGTAGTAGAGAAGAAGCTCGTGCCGCCAGCCATGAGCTCCACACAGCCACTTTGGCTCACACAGGACCATCC 300 CGGTCATCATCTCTTCTTCGAGCACGGCGGTCGGTACTCGAGGTGTGTCGGTGAAACCGAGTGTGTCCTGGTAGG

TETGACAGACCTGTCGGGCTTTGCCACCGAAGATTGTGGTGGTTGGCGTCGGAGGAGCTGGAGGAAATGCGGTGAA Pro Val Val Glu Lys Lys Leu Val Pro Pro Ala Met Ser Ser Thr Gln Pro Leu Trp Leu Thr Gin Asp His Pro A CACTGT CTG GACAGCCCGAAACGTGGCTTCTAACACCACCAACCGCAGCCTCCTCGACCTCCTTTACGCCACTT

Vol Thr Asp Leu Ser Gly Phe Ala Pro Lys IIe Voi Val Val Gly Val Gly Gly Ala Gly Asn Ala Vol Asn

FtsZ-mt2 consensus2 Map MPD (1 > 1423) Site and Sequence

BssH II

GTTBTACTAGGGGGGGGGGGGGGGTCCCACACCTCAAAGAACAAAGGTTGTGGCCTACGAGTGGTGTGGGTGCTG CAACATGATCGCGCGCGCCTGCAGGGTGTGGAGTTTCTTGTTGCAACACGGATGCTCAGCACTTACGCACGAC

525 Asn Het lie. Ala Arg Gly Leu Gin. Gly Val Glu Phe Leu Val Cys Asn Thr Asp Ala Gin His Leu Arg Thr Thr GCTGACGGAGAACCGCGTTCAGATGGCTCCTGAATTGACTGGAGGACTGGGCTGTGGCGCTAACCCCGAAGTTGG CGACTGCCTCTTGGCGCAAGTCTACCGAGGACTTAACTGACCTCCTGACCCGACACCGCGAATTGGGGCTTCAACC

9 Leu Thr Giu Asn Arg Yal Gin Met Ala Pro Giu Leu Thr Gly Leu Gly Cys Gly Ala Asn Pro Giu Yal Gly 

Arg Giu Ala Ala Giu Ala Ala Ile Asp Giu Ile Leu Giu Arg Yai Gin Giy Ala Asn Met Met Phe Vol Thr Ala CCCATACCCACCGCCTTGTCCATGTCCACGTCGTGGGCAGTAACGAGTCCGACGGAATCTACGACCATAGGAGTG GGSTATGGGTGGCGGAACAGGTACAGGTGCAGCACCCGTCATTGCTCAGGCTGCCTTAGATGCTGGTATCCTCAC

Gly thet Gly Gly Gly Thr Gly Ala Ala Ala Pro Val Ille Ala Gin. Ala Ala Leu Asp Ala Gly Ille Leu Thr

120 CGTAGCTGTCGTTACTAAGCCGTTCCGGTTTGAGGAAACAACCGTGCAAAGCTTGCGGCACAAGGCTCGCTGA GCATCGACAGCAATGATTCGGCAAGGCCAAACTCCCTTTGTTGGCACGTTTCGAACGCCGTGTTCCGGAGCGACT Yai Ala Vai Vai Thr Lys Pro Phe Arg Phe Giu Giy Asn Asn Arg Ala Lys Leu Ala Gin Giy Leu Ala Giu

ACTGAAGGATAGCGTCGATACGATGCTTGTGATCCCGAACCAAAACTTGTTCAACATGTCAAATGAGCGCACCTC TGACTTCCTATCGCAGCTATGCTACGAACACTAGGGCTTGGTTTTGAACAAGTTGTACAGTTTACTCGCGTGGAG

Leu Lys Asp Ser Val Asp Thr Met Leu Val Ile Pro Asn Gin Asn Leu Phe Asn Met Ser Asn Glu Arg Thr Ser

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FtsZ-mt2 consensus2 Map MPD (1 > 1423) Site and Sequence

GTTGATGGACGCATTCAGAATGGCGGACAATGTGCTTCTGGACGGTGTCAAGAACATTTCGGATTTGATGGTGAT 900 CAACTACCTGCGTAAGTCTTACCGCCTGTTACAGGAAGACGTGCCACAGTTCTTGTAAAGCCTAAACTACCACA

Leu Met Asp. Ala Phe Arg. Met. Ala Asp. Asn Val. Leu Leu Asp. Gly. Val. Lys. Asn. 11e. Ser. Asp. Leu. Met. Val. Met

GCCTGGGCTCATTAACCTTGACTTTGCGGATGTTCAATGGGTCATGCAAAATATGGGAAACGCTATGATGGGAAG 975 CGGACCCGAGTAATTGGAACTGAAACGCCTACAAGTTAGCCAGTACGTTTTATACCCTTTGCGAATACTACCCTTC

Pro Gly Leu 11e Asn Leu Asp Phe Ala Asp Yai Gin Ser Yai Met Gin Asn Met Gly Asn Ala Met Met Gly Ser

-- TOGAGAGGCCGATGGAGAGAATCGGGCTCTGCGTGCTGCTGAAGATGCATTGGCGAACCCTCTTCTGGGTGATAT 1050 ACCTCTCGGGCTACCTCTTAGCCCGAGAGGCAGGACGACTCTACGTAACGCTAGGAGAAGACCCACTATA

Gly Glu Ma Asp Gly Glu Asn Arg Ala Leu Arg Ala Ala Glu Asp Ala Leu Ala Asn Pro Leu Leu Gly Asp lie

TTGGATTAAGGACGCCAAGGGCATGATCGTTAATATCACGGGAGGCTCCGACCTGACGCTATTTGAAGTTGATGA AAGCTAATTCCTGCGGTTCCCGTACTAGCAATTATAGTGCCCTCCGAGGCTGGACTGCGATAAACTTCAACTACT

Ser lie tys Asp Ala Lys Gly Met lie Yai Asn lie Thr Gly Gly Ser Asp Leu Thr Leu Phe Glu Yai Asp Glu

Sau3A l

Tad

GGCTGCTGAGCGTGTGACGCGGGAACTTGATGATCCACACGCCAACATCATCTTCGGTTCGACCTTCGACGACTC 1200 CCGACGACTGGCACTGCGCCCTTGAACTACTAGGTGTGGGGTTGTAGTAGAAGCCAAGCTGGAAGCTGGTGA

Ala Ala Glu Arg Val Thr Arg Glu Leu Asp Asp Pro His Ala Asn ile. Ile Phe Gly Ser Thr Phe Asp Asp Ser

₩:

GCTSGSCGGGAAGCTACGCGTCTCCGTGGTTGCCACTGGTATTGCCGACCCGGACAAGTTATAGAAGCGTGATG 1275 CGACCGGCGTTCGATGCGGAGAGAGAGACGATGACCATAACGGCTGGGGGTGTTCAATATGTTCGGCACTAC

Leu Giy Giy Lys Leu Arg Yai Ser Yai Yai Ala Thr Giy 11e Ala Asp Pro Asp Lys Leu .

FtsZ-mt2 consensus2 Map MPD (1 > 1423) Site and Sequence

TTGGCCAGTATCAAAGCGTAAGCAGGGGAATGACACCTAATGACGTGATTGCTCCAAGAAATCTCTAGAATTGAA 1350 AACCGGTCATAGTTTCGCATTCGTCCCCTTACTGTGGATTACTGCACTAACGAGTTCTTTAGASATGTTAAACTT

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GTGGCATCGATGTTCTCCACGCACCCGCGCGTGCTACGGATTGGTATTATACGGACTGCTTCATACTTAGTT
CACGTAGCTAGATAGAGGTGCGTGGGCGCCACGACTAGCTAACCATAATATGCCTGACGAAGTATGAATCAA

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	Source Organism (organelle)	GenBank Accession No.
SEQ ID NO: 11	Agrobacterium tumefaciens	030992
SEQ ID NO: 12	Sinorhizobium meliloti	P30327
SEQ ID NO: 12	Bartonella clarridgeiae	AAD31718
SEO ID NO: 14	Rickettsia prowazekii	Q9ZCQ3
SEQ ID NO: 15	Caulobacter crescentus	P52976
SEQ ID NO: 16	Cyanidioschyzon merolae (mt)	BAA85115
SEQ ID NO: 4	Phytophthora infestans -mt2	this invention
SEQ ID NO: 17	Mallomonas splendens (mt)	AAF35432
SEQ ID NO: 17	Phytophthora infestans -mt1	this invention
SEQ ID NO: 2	Gentiana lutea (cp)	T51088
SEQ ID NO: 19	Nicotiana tabacum (cp, 2-1)	T51087
SEQ ID NO: 20	Arabidopsis thaliana (cp,2-1)	T49028
SEQ ID NO: 21	Physcomitrella patens (cp, 1)	
SEQ ID NO: 22	Physcomitrella patens (cp, 2)	
SEQ ID NO: 23	Guillardia theta (cp)	CAB40398
SEQ ID NO: 23	Mallomonas splendens (cp)	AAF35433
SEQ ID NO: 25	Anabaena PCC7120	CAA83241
SEQ ID NO: 25	Synechocystis PCC6803	P73456
	Arabidopsis thaliana (cp,1-1)	
SEQ ID NO: 27	Pisum sativum (cp)	T06774
SEQ ID NO: 28	Nicotiana tabacum (cp,1-3)	CAB89287
SEQ ID NO: 29	Nicotiana tabacum (cp,1)	CAB41987
SEQ ID NO: 30	Nicotiana tabacum (cp,17)	CAB89286
SEQ ID NO: 31	Nicotiana tabacum (cp,1 1) Nicotiana tabacum (cp,2)	AAF23770
SEQ ID NO: 32	MICOLIANA CADACUM (CP, 2)	MILSTI
	1	50
Bacterial FtsZ		VVANTDAQALTMTKADRVIQLGVNVTEGL
SEQ ID NO: 11	PRITYFGVGGGGGNAVNNMITVGLQGVDE	VVANTDAQALTMTKAERIIQMGVAVTEGL
SEQ ID NO: 12	PRITYEGYGGGGGNAVNNMI I AGEQGY DE	VVANTDAQALIMI KAERVIQLGAAVTEGL
SEQ ID NO: 13	PRITY FGVGGGGGNAV NNMI NAGLQGV DE	VVANTDAQADAMSKAEKVIQEGAMVIEGE VVANTDAQSLEHSLCINKIQLGVSTTRGL
SEQ ID NO: 14	PRINTEGUCCA CONAVINALEACI ECVEE	VVANTDAQSIBISBETNRIQLGVBTTREB VVANTDAQQLQFAKTDRRIQLGVQITQGL
SEQ ID NO: 15		VVANIDAQQEQEA::NIBMNIQEOVQIIQOE
Mitochondrial Fts		LVANTDAQALKMSLCPNRIQLGASLTEGL
SEQ ID NO: 16	PRIMVVGVGGAGGNAVNNMIASSLPGVEF	LVANTDAQALKHSLCFNKIQHGASBIBGB LVCNTDAQHLRTTLTENRVQMAPELTGGL
SEQ ID NO: 4	PKI VVVGVGGAGGNAVNNMI ARGIQGVEF	TYCN I DAQUERTT LIENKY QUAL BEIGGE
SEQ ID NO: 17	PKICVEGVGGGGCNAVNNMIAKKLSGVEF	VCANTDAQHLSTCLTENKLQLGKESTQGL
SEQ ID NO: 2	ASQLEGVEF	TIVANTDCQALGRSLAPHKITLGKDITKGL
Chloroplast FtsZ	PATTERNOUS CONTRACTOR AND ALECT AND CHEE	ENTRANÇONA TEMPONYI ENDI OTCOFI.TRGI.
SEQ ID NO: 18	AKIKVVGVGGGGSNAVNRMIESAMKGVEE	WIVNTDVQAIKMSPVYLENRLQIGQELTRGL
SEQ ID NO: 19	AKIKVVGVGGGGSNAVNRMIESSMKGVEE	WIVNTDIQAMRMSPVAAEQRLPIGQELTRGL
SEQ ID NO: 20	ARIKVIGVGGGGSNAVNRMIESEMSGVEE	TWIVNTDIQAMRMSPVLPDNRLQIGKELTRGL
SEQ ID NO: 21	AKIKVIGVGGGGSNAVNRMLESEMQGVEE	WIVNTDAQAMALSPVPAQNRLQIGQKLTRGL
SEQ ID NO: 22	AKIKVIGVGGGGSNAVNRMLESEMQGVEE	WIVNTDAQAMALSPVPAQNRLQIGQKLTRGL
SEQ ID NO: 23	CVIKVIGVGGGGGNAVNRMVG.GVEGVEE	WSINTDAQALSRSLAPNTCNIGAKLTRGL
SEQ ID NO: 24		LWVVNTDAQALSRSSAKRRLNIGKVLSRGL
SEQ ID NO: 25	ANIKVIGVGGGGGNAVNRMIESDVSGVE	WSINTDAQALTLAGAPSRLQIGQKLTRGL
SEQ ID NO: 26	AKIKVIGVGGGGCNAVNRMIASGVTGIDE	WAINTDSQALTNTNAPDCIQIGQKLTRGL
SEQ ID NO: 27	ARIKVIGVGGGGNNAVNRMISSGLQSVD	FYAINTDSQALLQFSAENPLQIGELLTRGL
SEQ ID NO: 28	AKIKVVGIGGGGNNAVNRMIGSGLQGVD	TYAINTDAQALLHSAAENPIKIGELLTRGL
SEQ ID NO: 29	AKIKVIGVGGGGNNAVNRMIGSGLQGVDI	TYAINTDAQALLQSAAENPLQIGELLTRGL
SEQ ID NO: 30	AKIKVIGVGGGGNNAVNRMIGSGLQGVDI	FYAINTDAQALLQSAAENPLQIGELLTRGL
SEQ ID NO: 31	AKIKVVGVGGGGNNAVNRMIGSGLQGVDI	FYAVNTDAQALLQSTVENPIQIGELLTRGL
SEQ ID NO: 32	AKIKVVGVGGGGNNAVNRMIGSGLQGVDI	FYAVNTDAQALLQSTVENPIQIGELLTRGL

	110
Bacterial FtsZ	60 110
SEQ ID NO: 11	GAGSQPEVGRAAAEECIDEIIDHLNGTHMCFVTAGMGGGTGTGAAPVVAQAARNKGILTV
SEQ ID NO: 12	GAGSQPEVGRAAAEECIDEIIDHLQGTHMCFVTAGMGGGTGTGAAPIVAQAARNKGILTV
SEQ ID NO: 13	GAGALPEVGRAAADECIDEIIDHLADSHMVFITAGMGGGTGTGAAPVVANAAREKGILTV
SEQ ID NO: 14	GAGASPEVGALAAQESENEIRSSLENSNMVFITAGMGGGTGTGSAPIIARIAKELGILTV
SEQ ID NO: 15	GAGAHPEVGMSAAEESFPEIGEHLDGAHMVFITAGMGGGTGTGAAPIIAKCARERGILTV
Mitochondrial Fts	<u>Z</u>
SEQ ID NO: 16	GAGARPDIGRAAAEEAYETLKREFRGVHLLFVTAGMGGGTGTGAAPIIARAAAELGCLTV
SEQ ID NO: 4	GCGANPEVGREAAEAAIDEILERVQGANMMFVTAGMGGGTGTGAAPVIAQAALDAGILTV
SEQ ID NO: 17	GCGANPESGRRAAEESKEEIARYIADANMVFITAGMGGGTGTGAAPVVAEVCMEKDILTV
SEQ ID NO: 2	GAGSKPELGKRSAEQQKVDIQRMLQDSNMLFITGGMGGGTCTGAAPVVASVARELGILTV
Chloroplast FtsZ	
SEQ ID NO: 18	GAGGNPDIGMNAAKESKEAIEEAVYGADMVFVTAGMGGGTGTGGAPVIAGIAKSMGILTV
SEQ ID NO: 19	GAGGNPDIGMNAANESKQAIEEAVYGADMVFVTAGMGGGTGTGAAPIIAGTAKSMGILTV
SEQ ID NO: 20	GAGGNPEIGMNAARESKEVIEEALYGSDMVFVTAGMGGGTGTGAAPVIAGIAKAMGILTV
SEQ ID NO: 21	GAGGNPEIGCSAAEESKAMVEEALRGADMVFVTAGMGGGTGSGAAPIIAGVAKQLGILTV
SEQ ID NO: 22	GAGGNPEIGCSAAEESKAMVEEALRGADMVFVTAGMGGGTGSGAAPIIAGVAKQLGILTV
SEQ ID NO: 23	GAGGNPEIGRKAAEESRDLIAEAVSAGDLVFVTAGMGGGTGSGAAPIVAEVAKEMGCLTV
SEQ ID NO: 24	GAGGNPAIGAKAAEESREEIMAVVKNADLVFVTAGMGGGTGSGAAPVVAECAKEAGALTV
SEQ ID NO: 25	GAGGNPAIGQKAAEESRDEIATALEGADLVFITAGMGGGTGTGAAPIVAEVAKEMGALTV
SEQ ID NO: 26	GAGGNPAIGQKAAEESRDEIARSLEGTDLVFITAGMGGGTGTGAAPIVAEVAKEMGCLTV
SEQ ID NO: 27	GTGGNPLLGEQAAEESKDAIANALKGSDLVFITAGMGGGTGSGAAPVVAQISKDAGYLTV
SEQ ID NO: 28	GTGGNPLLGEQAAEESKEAIANALKGSDLVFITAGMGGGTGSGAAPVVAQISKEAGYLTV
SEQ ID NO: 29	GTGGNPLLGEQAAEESKEAIANSLKGSDMVFITAGMGGGTGSGAAPVVAQIAKEAGYLTV
SEO ID NO: 30	GTGGNPLLGEOAAEESKEAIANSLKGSDMVFITAGMGGGTGSGAAPVVAQIAKEAGYLTV
SEQ ID NO: 31	GTGGNPLLGEQAAEESKEHIANALKGSDMVFITAGMGGGTGSGAAPVVAQIAKEAGYLTV
SEQ ID NO: 32	GTGGNPLLGEQAAEESKEHIANALKGSDMVFITAGMGGGTGSGAAPVVAQIAKEAGYLTV
Bacterial FtsZ	120 170
Bacterial FtsZ SEQ ID NO: 11	GVVTKPFHFEGGRRMRLAEQGIEELQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV
	GVVTKPFHFEGGRRMRLAEQGIEELQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFHFEGGRRMRIADQGISDLQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV
SEQ ID NO: 11 SEQ ID NO: 12	GVVTKPFHFEGGRRMRLAEQGIEELQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFHFEGGRRMRIADQGISDLQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFQFEGARRMKTAEAGIEELQKSVDTLIVIPNQNLFRIANEKTTFSDAFAMADQV
SEQ ID NO: 11	GVVTKPFHFEGGRRMRLAEQGIEELQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFHFEGGRRMRIADQGISDLQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFQFEGARRMKTAEAGIEELQKSVDTLIVIPNQNLFRIANEKTTFSDAFAMADQV GVVTKPFHFEGGHRMKTADKGLIELQQFVDTLIVIPNQNLFRIANEQTTFADAFKMADDV
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13	GVVTKPFHFEGGRRMRLAEQGIEELQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFHFEGGRRMRIADQGISDLQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFQFEGARRMKTAEAGIEELQKSVDTLIVIPNQNLFRIANEKTTFSDAFAMADQV
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13 SEQ ID NO: 14	GVVTKPFHFEGGRRMRLAEQGIEELQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFHFEGGRRMRIADQGISDLQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFQFEGARRMKTAEAGIEELQKSVDTLIVIPNQNLFRIANEKTTFSDAFAMADQV GVVTKPFHFEGGHRMKTADKGLIELQQFVDTLIVIPNQNLFRIANEQTTFADAFKMADDV GVVTKPFHFEGRHRMRLADSGIQELQRYVDTLIVIPNQNLFRVANERTTFAEAFGMADQV
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13 SEQ ID NO: 14 SEQ ID NO: 15	GVVTKPFHFEGGRRMRLAEQGIEELQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFHFEGGRRMRIADQGISDLQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFQFEGARRMKTAEAGIEELQKSVDTLIVIPNQNLFRIANEKTTFSDAFAMADQV GVVTKPFHFEGGHRMKTADKGLIELQQFVDTLIVIPNQNLFRIANEQTTFADAFKMADDV GVVTKPFHFEGRHRMRLADSGIQELQRYVDTLIVIPNQNLFRVANERTTFAEAFGMADQV  8Z AVVTKPFHFEGMIRMKTAEQGIVELTEHVDTMLVIPNQNLFKVASPRTSFLDAFRLADHV
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13 SEQ ID NO: 14 SEQ ID NO: 15 Mitochondrial Fts	GVVTKPFHFEGGRRMRLAEQGIEELQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFHFEGGRRMRIADQGISDLQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFQFEGARRMKTAEAGIEELQKSVDTLIVIPNQNLFRIANEKTTFSDAFAMADQV GVVTKPFHFEGGHRMKTADKGLIELQQFVDTLIVIPNQNLFRIANEQTTFADAFKMADDV GVVTKPFHFEGRHRMRLADSGIQELQRYVDTLIVIPNQNLFRVANERTTFAEAFGMADQV  8.Z AVVTKPFHFEGMIRMKTAEQGIVELTEHVDTMLVIPNQNLFKVASPRTSFLDAFRLADHV AVVTKPFRFEGNNRAKLAAQGLAELKDSVDTMLVIPNQNLFNMSNERTSLMDAFRMADNV
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13 SEQ ID NO: 14 SEQ ID NO: 15 Mitochondrial Fts SEQ ID NO: 16 SEQ ID NO: 4	GVVTKPFHFEGGRRMRLAEQGIEELQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFHFEGGRRMRIADQGISDLQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFQFEGARRMKTAEAGIEELQKSVDTLIVIPNQNLFRIANEKTTFSDAFAMADQV GVVTKPFHFEGGHRMKTADKGLIELQQFVDTLIVIPNQNLFRIANEQTTFADAFKMADDV GVVTKPFHFEGRHRMRLADSGIQELQRYVDTLIVIPNQNLFRVANERTTFAEAFGMADQV  ZZ AVVTKPFHFEGMIRMKTAEQGIVELTEHVDTMLVIPNQNLFKVASPRTSFLDAFRLADHV AVVTKPFRFEGNNRAKLAAQGLAELKDSVDTMLVIPNQNLFNMSNERTSLMDAFRMADNV AVVTKPFSFEGKHRARLANEGIRSLEDRVDTLIIIPNQNIFKLINASTSMADAFGLADDI
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13 SEQ ID NO: 14 SEQ ID NO: 15 Mitochondrial Fts SEQ ID NO: 16 SEQ ID NO: 4 SEQ ID NO: 17	GVVTKPFHFEGGRRMRLAEQGIEELQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFHFEGGRRMRIADQGISDLQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFQFEGARRMKTAEAGIEELQKSVDTLIVIPNQNLFRIANEKTTFSDAFAMADQV GVVTKPFHFEGGHRMKTADKGLIELQQFVDTLIVIPNQNLFRIANEQTTFADAFKMADDV GVVTKPFHFEGRHRMRLADSGIQELQRYVDTLIVIPNQNLFRVANERTTFAEAFGMADQV  8.Z AVVTKPFHFEGMIRMKTAEQGIVELTEHVDTMLVIPNQNLFKVASPRTSFLDAFRLADHV AVVTKPFRFEGNNRAKLAAQGLAELKDSVDTMLVIPNQNLFNMSNERTSLMDAFRMADNV
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13 SEQ ID NO: 14 SEQ ID NO: 15 Mitochondrial Fts SEQ ID NO: 16 SEQ ID NO: 4 SEQ ID NO: 17 SEQ ID NO: 2	GVVTKPFHFEGGRRMRLAEQGIEELQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFHFEGGRRMRIADQGISDLQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFQFEGARRMKTAEAGIEELQKSVDTLIVIPNQNLFRIANEKTTFSDAFAMADQV GVVTKPFHFEGGHRMKTADKGLIELQQFVDTLIVIPNQNLFRIANEQTTFADAFKMADDV GVVTKPFHFEGRHRMRLADSGIQELQRYVDTLIVIPNQNLFRVANERTTFAEAFGMADQV  8.Z  AVVTKPFHFEGMIRMKTAEQGIVELTEHVDTMLVIPNQNLFKVASPRTSFLDAFRLADHV AVVTKPFRFEGNNRAKLAAQGLAELKDSVDTMLVIPNQNLFNMSNERTSLMDAFRMADNV AVVTKPFSFEGKHRARLANEGIRSLEDRVDTLIIIPNQNIFKLINASTSMADAFGLADDI GVVSTPFRSEGPNRTRLANAGVKELAKYVDTLIVVPNQNLLALADKSTTMLEAFRYADDV
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13 SEQ ID NO: 14 SEQ ID NO: 15 Mitochondrial Fts SEQ ID NO: 16 SEQ ID NO: 4 SEQ ID NO: 17 SEQ ID NO: 2 Chloroplast FtsZ	GVVTKPFHFEGGRRMRLAEQGIEELQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFHFEGGRRMRIADQGISDLQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFQFEGARRMKTAEAGIEELQKSVDTLIVIPNQNLFRIANEKTTFSDAFAMADQV GVVTKPFHFEGGHRMKTADKGLIELQQFVDTLIVIPNQNLFRIANEQTTFADAFKMADDV GVVTKPFHFEGRHRMRLADSGIQELQRYVDTLIVIPNQNLFRVANERTTFAEAFGMADQV  8.Z  AVVTKPFHFEGMIRMKTAEQGIVELTEHVDTMLVIPNQNLFKVASPRTSFLDAFRLADHV AVVTKPFRFEGNNRAKLAAQGLAELKDSVDTMLVIPNQNLFNMSNERTSLMDAFRMADNV AVVTKPFSFEGKHRARLANEGIRSLEDRVDTLIIIPNQNIFKLINASTSMADAFGLADDI GVVSTPFRSEGPNRTRLANAGVKELAKYVDTLIVVPNQNLLALADKSTTMLEAFRYADDV GIVTTPFSFEGRRRAVOAOEGIAALRDNVDTLIVIPNDKLLTAVSPSTPVTEAFNLADDI
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13 SEQ ID NO: 14 SEQ ID NO: 15 Mitochondrial Fts SEQ ID NO: 16 SEQ ID NO: 4 SEQ ID NO: 17 SEQ ID NO: 2 Chloroplast FtsZ SEQ ID NO: 18	GVVTKPFHFEGGRRMRLAEQGIEELQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFHFEGGRRMRIADQGISDLQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFQFEGARRMKTAEAGIEELQKSVDTLIVIPNQNLFRIANEKTTFSDAFAMADQV GVVTKPFHFEGGHRMKTADKGLIELQQFVDTLIVIPNQNLFRIANEQTTFADAFKMADDV GVVTKPFHFEGRHRMRLADSGIQELQRYVDTLIVIPNQNLFRVANERTTFAEAFGMADQV  8.Z  AVVTKPFHFEGMIRMKTAEQGIVELTEHVDTMLVIPNQNLFKVASPRTSFLDAFRLADHV AVVTKPFRFEGNNRAKLAAQGLAELKDSVDTMLVIPNQNLFNMSNERTSLMDAFRMADNV AVVTKPFSFEGKHRARLANEGIRSLEDRVDTLIIIPNQNIFKLINASTSMADAFGLADDI GVVSTPFRSEGPNRTRLANAGVKELAKYVDTLIVVPNQNLLALADKSTTMLEAFRYADDV  GIVTTPFSFEGRRRAVQAQEGIAALRDNVDTLIVIPNDKLLTAVSPSTPVTEAFNLADDI GIVTTPFSFEGRRRAVOAOEGIAALRENVDTLIVIPNDKLLTAVSPSTPVTEAFNLADDI
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13 SEQ ID NO: 14 SEQ ID NO: 15 Mitochondrial Fts SEQ ID NO: 16 SEQ ID NO: 4 SEQ ID NO: 17 SEQ ID NO: 2 Chloroplast FtsZ SEQ ID NO: 18 SEQ ID NO: 19	GVVTKPFHFEGGRRMRLAEQGIEELQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFHFEGGRRMRIADQGISDLQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFQFEGARRMKTAEAGIEELQKSVDTLIVIPNQNLFRIANEKTTFSDAFAMADQV GVVTKPFHFEGGHRMKTADKGLIELQQFVDTLIVIPNQNLFRIANEQTTFADAFKMADDV GVVTKPFHFEGRHRMRLADSGIQELQRYVDTLIVIPNQNLFRVANERTTFAEAFGMADQV  8.Z  AVVTKPFHFEGMIRMKTAEQGIVELTEHVDTMLVIPNQNLFKVASPRTSFLDAFRLADHV AVVTKPFRFEGNNRAKLAAQGLAELKDSVDTMLVIPNQNLFNMSNERTSLMDAFRMADNV AVVTKPFSFEGKHRARLANEGIRSLEDRVDTLIIIPNQNIFKLINASTSMADAFGLADDI GVVSTPFRSEGPNRTRLANAGVKELAKYVDTLIVVPNQNLLALADKSTTMLEAFRYADDV  GIVTTPFSFEGRRRAVQAQEGIAALRDNVDTLIVIPNDKLLTAVSPSTPVTEAFNLADDI GIVTTPFSFEGRRRAVOAOEGIAALRENVDTLIVIPNDKLLTAVSPSTPVTEAFNLADDI
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13 SEQ ID NO: 14 SEQ ID NO: 15 Mitochondrial Fts SEQ ID NO: 16 SEQ ID NO: 4 SEQ ID NO: 17 SEQ ID NO: 2 Chloroplast FtsZ SEQ ID NO: 18 SEQ ID NO: 19 SEQ ID NO: 20	GVVTKPFHFEGGRRMRLAEQGIEELQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFHFEGGRRMRIADQGISDLQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFQFEGARRMKTAEAGIEELQKSVDTLIVIPNQNLFRIANEKTTFSDAFAMADQV GVVTKPFHFEGGHRMKTADKGLIELQQFVDTLIVIPNQNLFRIANEQTTFADAFKMADDV GVVTKPFHFEGRHRMRLADSGIQELQRYVDTLIVIPNQNLFRVANERTTFAEAFGMADQV 62Z AVVTKPFHFEGMIRMKTAEQGIVELTEHVDTMLVIPNQNLFKVASPRTSFLDAFRLADHV AVVTKPFRFEGNNRAKLAAQGLAELKDSVDTMLVIPNQNLFNMSNERTSLMDAFRMADNV AVVTKPFSFEGKHRARLANEGIRSLEDRVDTLIIIPNQNIFKLINASTSMADAFGLADDI GVVSTPFRSEGPNRTRLANAGVKELAKYVDTLIVVPNQNLLALADKSTTMLEAFRYADDV GIVTTPFSFEGRRRAVQAQEGIAALRDNVDTLIVIPNDKLLTAVSPSTPVTEAFNLADDI GIVTTPFSFEGRRRAVQAQEGIAALRENVDTLIVIPNDKLLTAVSPSTPVTEAFNLADDI GIATTPFSFEGRRRATVQAQEGLASLRDNVDTLIVIPNDKLLTAVSPSTPVTEAFNLADDI
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13 SEQ ID NO: 14 SEQ ID NO: 15 Mitochondrial Fts SEQ ID NO: 16 SEQ ID NO: 4 SEQ ID NO: 4 SEQ ID NO: 2 Chloroplast FtsZ SEQ ID NO: 18 SEQ ID NO: 19 SEQ ID NO: 20 SEQ ID NO: 20	GVVTKPFHFEGGRRMRLAEQGIEELQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFHFEGGRRMRIADQGISDLQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFQFEGARRMKTAEAGIEELQKSVDTLIVIPNQNLFRIANEKTTFSDAFAMADQV GVVTKPFHFEGGHRMKTADKGLIELQQFVDTLIVIPNQNLFRIANEQTTFADAFKMADDV GVVTKPFHFEGRHRMRLADSGIQELQRYVDTLIVIPNQNLFRVANERTTFAEAFGMADQV 62Z AVVTKPFHFEGMIRMKTAEQGIVELTEHVDTMLVIPNQNLFKVASPRTSFLDAFRLADHV AVVTKPFRFEGNNRAKLAAQGLAELKDSVDTMLVIPNQNLFNMSNERTSLMDAFRMADNV AVVTKPFSFEGKHRARLANEGIRSLEDRVDTLIIIPNQNIFKLINASTSMADAFGLADDI GVVSTPFRSEGPNRTRLANAGVKELAKYVDTLIVVPNQNLLALADKSTTMLEAFRYADDV GIVTTPFSFEGRRRAVQAQEGIAALRDNVDTLIVIPNDKLLTAVSPSTPVTEAFNLADDI GIVTTPFSFEGRRRAVQAQEGIAALRENVDTLIVIPNDKLLTAVSPSTPVTEAFNLADDI GIATTPFSFEGRRRAVQAQEGLASLRDNVDTLIVIPNDKLLTAVSQSTPVTEAFNLADDI GIATTPFSFEGRRRAVOAHEGIAALKNNVDTLITIPNNKLLTAVAQSTPVTEAFNLADDI
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13 SEQ ID NO: 14 SEQ ID NO: 15 Mitochondrial Fts SEQ ID NO: 16 SEQ ID NO: 4 SEQ ID NO: 4 SEQ ID NO: 2 Chloroplast FtsZ SEQ ID NO: 18 SEQ ID NO: 19 SEQ ID NO: 20 SEQ ID NO: 21 SEQ ID NO: 21 SEQ ID NO: 22	GVVTKPFHFEGGRRMRLAEQGIEELQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFHFEGGRRMRIADQGISDLQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFQFEGARRMKTAEAGIEELQKSVDTLIVIPNQNLFRIANEKTTFSDAFAMADQV GVVTKPFHFEGGHRMKTADKGLIELQQFVDTLIVIPNQNLFRIANEQTTFADAFKMADDV GVVTKPFHFEGRHRMRLADSGIQELQRYVDTLIVIPNQNLFRVANERTTFAEAFGMADQV  8Z AVVTKPFHFEGMIRMKTAEQGIVELTEHVDTMLVIPNQNLFKVASPRTSFLDAFRLADHV AVVTKPFRFEGNNRAKLAAQGLAELKDSVDTMLVIPNQNLFNMSNERTSLMDAFRMADNV AVVTKPFSFEGKHRARLANEGIRSLEDRVDTLIIIPNQNIFKLINASTSMADAFGLADDI GVVSTPFRSEGPNRTRLANAGVKELAKYVDTLIVVPNQNLLALADKSTTMLEAFRYADDV  GIVTTPFSFEGRRRAVQAQEGIAALRDNVDTLIVIPNDKLLTAVSPSTPVTEAFNLADDI GIVTTPFSFEGRRRAVQAQEGIAALRENVDTLIVIPNDKLLTAVSPSTPVTEAFNLADDI GIATTPFSFEGRRRAVQAQEGLASLRDNVDTLIVIPNDKLLTAVSQSTPVTEAFNLADDI GIVTTPFAFEGRRRAVQAHEGIAALKNNVDTLITIPNNKLLTAVAQSTPVTEAFNLADDI GIVTTPFAFEGRRRSVOAHEGIAALKNNVDTLITIPNNKLLTAVAQSTPVTEAFNLADDI
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13 SEQ ID NO: 14 SEQ ID NO: 15 Mitochondrial Fts SEQ ID NO: 16 SEQ ID NO: 4 SEQ ID NO: 17 SEQ ID NO: 2 Chloroplast FtsZ SEQ ID NO: 18 SEQ ID NO: 19 SEQ ID NO: 20 SEQ ID NO: 21 SEQ ID NO: 22 SEQ ID NO: 22 SEQ ID NO: 22 SEQ ID NO: 22 SEQ ID NO: 23	GVVTKPFHFEGGRRMRLAEQGIEELQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFHFEGGRRMRIADQGISDLQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFQFEGARRMKTAEAGIEELQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFHFEGGHRMKTADKGLIELQQFVDTLIVIPNQNLFRIANEQTTFADAFKMADDV GVVTKPFHFEGRHRMRLADSGIQELQRYVDTLIVIPNQNLFRVANERTTFAEAFGMADQV  8Z AVVTKPFHFEGMIRMKTAEQGIVELTEHVDTMLVIPNQNLFKVASPRTSFLDAFRLADHV AVVTKPFRFEGNNRAKLAAQGLAELKDSVDTMLVIPNQNLFNMSNERTSLMDAFRMADNV AVVTKPFSFEGKHRARLANEGIRSLEDRVDTLIIIPNQNIFKLINASTSMADAFGLADDI GVVSTPFRSEGPNRTRLANAGVKELAKYVDTLIVVPNQNLLALADKSTTMLEAFRYADDV  GIVTTPFSFEGRRRAVQAQEGIAALRDNVDTLIVIPNDKLLTAVSPSTPVTEAFNLADDI GIVTTPFSFEGRRRAVQAQEGIAALRENVDTLIVIPNDKLLTAVSPSTPVTEAFNLADDI GIATTPFSFEGRRRAVQAQEGLASLRDNVDTLIVIPNDKLLTAVSQSTPVTEAFNLADDI GIVTTPFAFEGRRRAVQAHEGIAALKNNVDTLITIPNNKLLTAVAQSTPVTEAFNLADDI GIVTTPFAFEGRRRSVQAHEGIAALKNNVDTLITIPNNKLLTAVAQSTPVTEAFNLADDI GIVTTPFAFEGRRRSVQAHEGIAALKNNVDTLITIPNNKLLTAVAQSTPVTEAFNLADDI GVVTKPFAFEGKRRMOOANDAILNLRNKVDTLIVVSNDKLLQIVPDNTPLQDAFSVADDI
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13 SEQ ID NO: 14 SEQ ID NO: 15 Mitochondrial Fts SEQ ID NO: 16 SEQ ID NO: 4 SEQ ID NO: 4 SEQ ID NO: 2 Chloroplast FtsZ SEQ ID NO: 18 SEQ ID NO: 19 SEQ ID NO: 20 SEQ ID NO: 21 SEQ ID NO: 22 SEQ ID NO: 22 SEQ ID NO: 23 SEQ ID NO: 23 SEQ ID NO: 24	GVVTKPFHFEGGRRMRLAEQGIEELQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFHFEGGRRMRIADQGISDLQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFQFEGARRMKTAEAGIEELQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFHFEGGHRMKTADKGLIELQQFVDTLIVIPNQNLFRIANEQTTFADAFKMADDV GVVTKPFHFEGRHRMRLADSGIQELQRYVDTLIVIPNQNLFRVANERTTFAEAFGMADQV  82  AVVTKPFHFEGMIRMKTAEQGIVELTEHVDTMLVIPNQNLFKVASPRTSFLDAFRLADHV AVVTKPFRFEGNNRAKLAAQGLAELKDSVDTMLVIPNQNLFNMSNERTSLMDAFRMADNV AVVTKPFSFEGKHRARLANEGIRSLEDRVDTLIIIPNQNIFKLINASTSMADAFGLADDI GVVSTPFRSEGPNRTRLANAGVKELAKYVDTLIVVPNQNLLALADKSTTMLEAFRYADDV  GIVTTPFSFEGRRRAVQAQEGIAALRDNVDTLIVIPNDKLLTAVSPSTPVTEAFNLADDI GIVTTPFSFEGRRRAVQAQEGIAALRENVDTLIVIPNDKLLTAVSPSTPVTEAFNLADDI GIVTTPFAFEGRRRAVQAQEGIAALKNNVDTLIVIPNDKLLTAVSQSTPVTEAFNLADDI GIVTTPFAFEGRRRAVQAHEGIAALKNNVDTLITIPNNKLLTAVAQSTPVTEAFNLADDI GIVTTPFAFEGRRRSVQAHEGIAALKNNVDTLITIPNNKLLTAVAQSTPVTEAFNLADDI GVVTKPFAFEGKRRMQQANDAILNLRNKVDTLIVVSNDKLLQIVPDNTPLQDAFSVADDI GVVTKPFAFEGRRRMQQANDAILNLRNKVDTLIVVSNDKLLQIVPDNTPLQDAFSVADDI GVVTKPFGFEGRKRMOQANDAILEMKDKVDTLIVVSNDKLLKIVPDNTPLTEAFLVADDI
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13 SEQ ID NO: 14 SEQ ID NO: 15 Mitochondrial Fts SEQ ID NO: 16 SEQ ID NO: 4 SEQ ID NO: 4 SEQ ID NO: 2 Chloroplast FtsZ SEQ ID NO: 19 SEQ ID NO: 20 SEQ ID NO: 21 SEQ ID NO: 21 SEQ ID NO: 22 SEQ ID NO: 23 SEQ ID NO: 24 SEQ ID NO: 24 SEQ ID NO: 25	GVVTKPFHFEGGRRMRLAEQGIEELQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFHFEGGRRMRIADQGISDLQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFQFEGARRMKTAEAGIEELQKSVDTLIVIPNQNLFRIANEKTTFSDAFAMADQV GVVTKPFHFEGGRRMKTAEAGIEELQKSVDTLIVIPNQNLFRIANEKTTFSDAFAMADQV GVVTKPFHFEGGRRMKTADKGLIELQQFVDTLIVIPNQNLFRIANEQTTFADAFKMADDV GVVTKPFHFEGRHRMRLADSGIQELQRYVDTLIVIPNQNLFRVANERTTFAEAFGMADQV  3.Z  AVVTKPFHFEGMIRMKTAEQGIVELTEHVDTMLVIPNQNLFKVASPRTSFLDAFRLADHV AVVTKPFRFEGNNRAKLAAQGLAELKDSVDTMLVIPNQNLFNMSNERTSLMDAFRMADNV AVVTKPFSFEGKHRARLANEGIRSLEDRVDTLIIIPNQNIFKLINASTSMADAFGLADDI GVVSTPFRSEGPNRTRLANAGVKELAKYVDTLIVVPNQNLLALADKSTTMLEAFRYADDV  GIVTTPFSFEGRRRAVQAQEGIAALRDNVDTLIVIPNDKLLTAVSPSTPVTEAFNLADDI GIVTTPFSFEGRRRAVQAQEGIAALRENVDTLIVIPNDKLLTAVSPSTPVTEAFNLADDI GIVTTPFAFEGRRRAVQAHEGIAALKNNVDTLITIPNNKLLTAVAQSTPVTEAFNLADDI GIVTTPFAFEGRRRSVQAHEGIAALKNNVDTLITIPNNKLLTAVAQSTPVTEAFNLADDI GVVTKPFAFEGKRRMQQANDAILNLRNKVDTLIVVSNDKLLQIVPDNTPLQDAFSVADDI GVVTKPFGFEGRKRMQQARNAILEMKDKVDTLIVVSNDKLLKIVPDNTPLTEAFLVADDI GVVTKPFFVFEGRRRTSOAEOGIEGLKSRVDTLIIIPNNKLLEVIPEQTPVQEAFRYADDV
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13 SEQ ID NO: 14 SEQ ID NO: 15 Mitochondrial Fts SEQ ID NO: 16 SEQ ID NO: 4 SEQ ID NO: 4 SEQ ID NO: 2 Chloroplast FtsZ SEQ ID NO: 18 SEQ ID NO: 19 SEQ ID NO: 20 SEQ ID NO: 21 SEQ ID NO: 21 SEQ ID NO: 22 SEQ ID NO: 23 SEQ ID NO: 24 SEQ ID NO: 25 SEQ ID NO: 26	GVVTKPFHFEGGRRMRLAEQGIEELQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFHFEGGRRMRIADQGISDLQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFGFEGARRMKTAEAGIEELQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFHFEGGHRMKTADKGLIELQQFVDTLIVIPNQNLFRIANEKTTFSDAFAMADQV GVVTKPFHFEGGHRMKTADKGLIELQQFVDTLIVIPNQNLFRIANEQTTFADAFKMADDV GVVTKPFHFEGRHRMRLADSGIQELQRYVDTLIVIPNQNLFRVANERTTFAEAFGMADQV  8Z  AVVTKPFHFEGMIRMKTAEQGIVELTEHVDTMLVIPNQNLFKVASPRTSFLDAFRLADHV AVVTKPFRFEGNNRAKLAAQGLAELKDSVDTMLVIPNQNLFNMSNERTSLMDAFRMADNV AVVTKPFSFEGKHRARLANEGIRSLEDRVDTLIIIPNQNIFKLINASTSMADAFGLADDI GVVSTPFRSEGPNRTRLANAGVKELAKYVDTLIVVPNQNLLALADKSTTMLEAFRYADDV  GIVTTPFSFEGRRRAVQAQEGIAALRDNVDTLIVIPNDKLLTAVSPSTPVTEAFNLADDI GIVTTPFSFEGRRRAVQAQEGIAALRENVDTLIVIPNDKLLTAVSPSTPVTEAFNLADDI GIVTTPFAFEGRRRAVQAHEGIAALKNNVDTLITIPNNKLLTAVAQSTPVTEAFNLADDI GIVTTPFAFEGRRRSVQAHEGIAALKNNVDTLITIPNNKLLTAVAQSTPVTEAFNLADDI GVVTKPFAFEGKRRMQQANDAILNLRNKVDTLIVVSNDKLLQIVPDNTPLQDAFSVADDI GVVTKPFGFEGRRRTSQAEQGIEGLKSRVDTLIIPNNKLLKIVPDNTPLTEAFLVADDI GVVTRPFVFEGRRRTSQAEQGIEGLKSRVDTLIIPNNKLLEVIPEQTPVQEAFRYADDV GIVTRPFTFEGRRRAKOAEEGINALQSRVDTLIVIPNNQLLSVIPAETPLQEAFRVADDI
SEQ ID NO: 11  SEQ ID NO: 12  SEQ ID NO: 13  SEQ ID NO: 14  SEQ ID NO: 15  Mitochondrial Fts  SEQ ID NO: 16  SEQ ID NO: 4  SEQ ID NO: 17  SEQ ID NO: 2  Chloroplast FtsZ  SEQ ID NO: 19  SEQ ID NO: 20  SEQ ID NO: 21  SEQ ID NO: 21  SEQ ID NO: 22  SEQ ID NO: 23  SEQ ID NO: 23  SEQ ID NO: 24  SEQ ID NO: 25  SEQ ID NO: 25  SEQ ID NO: 25  SEQ ID NO: 26  SEQ ID NO: 26  SEQ ID NO: 26  SEQ ID NO: 27	GVVTKPFHFEGGRRMRLAEQGIEELQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFHFEGGRRMRIADQGISDLQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFHFEGGRRMKTAEAGIEELQKSVDTLIVIPNQNLFRIANEKTTFSDAFAMADQV GVVTKPFHFEGGHRMKTADKGLIELQQFVDTLIVIPNQNLFRIANEKTTFSDAFAMADQV GVVTKPFHFEGGHRMKTADKGLIELQQFVDTLIVIPNQNLFRIANEQTTFADAFKMADDV GVVTKPFHFEGRHRMRLADSGIQELQRYVDTLIVIPNQNLFRVANERTTFAEAFGMADQV  8Z AVVTKPFHFEGMIRMKTAEQGIVELTEHVDTMLVIPNQNLFKVASPRTSFLDAFRLADHV AVVTKPFRFEGNNRAKLAAQGLAELKDSVDTMLVIPNQNLFNMSNERTSLMDAFRMADNV AVVTKPFSFEGKHRARLANEGIRSLEDRVDTLIIIPNQNIFKLINASTSMADAFGLADDI GVVSTPFRSEGPNRTRLANAGVKELAKYVDTLIVVPNQNLLALADKSTTMLEAFRYADDV  GIVTTPFSFEGRRRAVQAQEGIAALRDNVDTLIVIPNDKLLTAVSPSTPVTEAFNLADDI GIVTTPFSFEGRRRAVQAQEGIAALRENVDTLIVIPNDKLLTAVSPSTPVTEAFNLADDI GIVTTPFAFEGRRRAVQAHEGIAALKNNVDTLITIPNNKLLTAVAQSTPVTEAFNLADDI GIVTTPFAFEGRRRAVQAHEGIAALKNNVDTLITIPNNKLLTAVAQSTPVTEAFNLADDI GVVTKPFAFEGKRRMQQANDAILNLRNKVDTLIVVSNDKLLQIVPDNTPLQDAFSVADDI GVVTKPFGFEGRRRAVQARNAILEMKDKVDTLIVVSNDKLLKIVPDNTPLTEAFLVADDI GVVTKPFFFFEGRRRSVQARNAILEMKDKVDTLIVVSNDKLLKIVPDNTPLTEAFLVADDI GVVTRPFVFEGRRRTSQAEQGIEGLKSRVDTLIIIPNNKLLEVIPEQTPVQEAFRYADDV GIVTRPFTFEGRRRAKQAEEGINALQSRVDTLIVIPNNQLLSVIPAETPLQEAFRVADDI GVVTYPFSFEGRRRSLQAEEGINALQSRVDTLIVIPNDRLLDIADEQTPLQDAFLLADDV
SEQ ID NO: 11  SEQ ID NO: 12  SEQ ID NO: 13  SEQ ID NO: 14  SEQ ID NO: 15  Mitochondrial Fts  SEQ ID NO: 16  SEQ ID NO: 4  SEQ ID NO: 4  SEQ ID NO: 2  Chloroplast FtsZ  SEQ ID NO: 19  SEQ ID NO: 20  SEQ ID NO: 21  SEQ ID NO: 21  SEQ ID NO: 22  SEQ ID NO: 23  SEQ ID NO: 23  SEQ ID NO: 24  SEQ ID NO: 24  SEQ ID NO: 25  SEQ ID NO: 25  SEQ ID NO: 26  SEQ ID NO: 27  SEQ ID NO: 27  SEQ ID NO: 27  SEQ ID NO: 28	GVVTKPFHFEGGRRMRLAEQGIEELQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFHFEGGRRMRIADQGISDLQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFHFEGGRRMKTAEAGIEELQKSVDTLIVIPNQNLFRIANEKTTFSDAFAMADQV GVVTKPFHFEGGHRMKTADKGLIELQQFVDTLIVIPNQNLFRIANEKTTFSDAFAMADQV GVVTKPFHFEGGHRMKTADKGLIELQQFVDTLIVIPNQNLFRIANEQTTFADAFKMADDV GVVTKPFHFEGRHRMRLADSGIQELQRYVDTLIVIPNQNLFRVANERTTFAEAFGMADQV  AVVTKPFHFEGMIRMKTAEQGIVELTEHVDTMLVIPNQNLFRVANERTTFAEAFGMADQV AVVTKPFFFFEGNRRAKLAAQGLAELKDSVDTMLVIPNQNLFRWASPRTSFLDAFRLADHV AVVTKPFSFEGKHRARLANEGIRSLEDRVDTLIIIPNQNIFKLINASTSMADAFGLADDI GVVSTPFRSEGPNRTRLANAGVKELAKYVDTLIVVPNQNLLALADKSTTMLEAFRYADDV  GIVTTPFSFEGRRRAVQAQEGIAALRENVDTLIVIPNDKLLTAVSPSTPVTEAFNLADDI GIVTTPFSFEGRRRAVQAQEGIAALRENVDTLIVIPNDKLLTAVSQSTPVTEAFNLADDI GIVTTPFAFEGRRRAVQAHEGIAALKNNVDTLITIPNNKLLTAVAQSTPVTEAFNLADDI GIVTTPFAFEGRRRSVQAHEGIAALKNNVDTLITIPNNKLLTAVAQSTPVTEAFNLADDI GVVTKPFAFEGKRRMQQANDAILNHKVDTLIVVSNDKLLQIVPDNTPLQDAFSVADDI GVVTKPFFFEGRRRAVQARNAILEMKDKVDTLIVVSNDKLLKIVPDNTPLTEAFLVADDI GVVTRPFVFEGRRRTSQAEQGIEGLKSRVDTLIIIPNNKLLEVIPEQTPVQEAFRYADDV GVVTRPFFFEGRRRAKQAEEGINALQSRVDTLIVIPNNQLLSVIPAETPLQEAFRVADDI GVVTYPFSFEGRRRSLQALEAIEKLQKNVDTLIVIPNDRLLDIADEQMPLQDAFLLADDV GVVTYPFSFEGRRRSLQALEAIEKLQKNVDTLIVIPNDRLLDIADEQMPLQDAFRLADDV
SEQ ID NO: 11  SEQ ID NO: 12  SEQ ID NO: 13  SEQ ID NO: 14  SEQ ID NO: 15  Mitochondrial Fts  SEQ ID NO: 16  SEQ ID NO: 4  SEQ ID NO: 4  SEQ ID NO: 2  Chloroplast FtsZ  SEQ ID NO: 19  SEQ ID NO: 20  SEQ ID NO: 21  SEQ ID NO: 21  SEQ ID NO: 22  SEQ ID NO: 23  SEQ ID NO: 23  SEQ ID NO: 24  SEQ ID NO: 24  SEQ ID NO: 25  SEQ ID NO: 25  SEQ ID NO: 26  SEQ ID NO: 27  SEQ ID NO: 28  SEQ ID NO: 28  SEQ ID NO: 28  SEQ ID NO: 29	GVVTKPFHFEGGRRMRLAEQGIEELQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFHFEGGRRMRIADQGISDLQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFHFEGGRRMKTAEAGIEELQKSVDTLIVIPNQNLFRIANEKTTFSDAFAMADQV GVVTKPFHFEGGHRMKTADKGLIELQQFVDTLIVIPNQNLFRIANEKTTFSDAFAMADQV GVVTKPFHFEGGHRMKTADKGLIELQQFVDTLIVIPNQNLFRIANEQTTFADAFKMADDV GVVTKPFHFEGRIRMKTAEQGIVELTEHVDTMLVIPNQNLFRVANERTTFAEAFGMADQV  8.Z  AVVTKPFHFEGMIRMKTAEQGIVELTEHVDTMLVIPNQNLFKVASPRTSFLDAFRLADHV AVVTKPFSFEGKHRARLANEGIRSLEDRVDTLIIIPNQNIFKVASPRTSSLDAFRLADHV GVVSTPFRSEGPNRTRLANAGVKELAKYVDTLIVVPNQNLFNMSNERTSLMDAFRMADNV GVVSTPFRSEGPNRTRLANAGVKELAKYVDTLIVVPNQNLLALADKSTTMLEAFRYADDV  GIVTTPFSFEGRRRAVQAQEGIAALRDNVDTLIVIPNDKLLTAVSPSTPVTEAFNLADDI GIVTTPFSFEGRRRAVQAQEGIAALRENVDTLIVIPNDKLLTAVSPSTPVTEAFNLADDI GIVTTPFAFEGRRRAVQAHEGIAALKNNVDTLITIPNNKLLTAVAQSTPVTEAFNLADDI GIVTTPFAFEGRRRAVQAHEGIAALKNNVDTLITIPNNKLLTAVAQSTPVTEAFNLADDI GVVTKPFAFEGKRRMQQANDAILNLRNKVDTLIVVSNDKLLQIVPDNTPLQDAFSVADDI GVVTKPFGFEGRRRAVQARAGIEGLKSRVDTLIVVSNDKLLKIVPDNTPLTEAFLVADDI GVVTKPFGFEGRRRAVQAEGINALCHKDKVDTLIVVSNDKLLKIVPDNTPLTEAFLVADDI GVVTRPFVFEGRRRTSQAEQGIEGLKSRVDTLIVIPNNKLLEVIPEQTPVQEAFRYADDV GIVTTPFFFEGRRRAKQAEEGINALQSRVDTLIVIPNDRLLDIADEQTPLQDAFLLADDV GVVTYPFSFEGRKRSLQALEAIEKLQKNVDTLIVIPNDRLLDIADEQMPLQDAFRLADDV GVVTYPFSFEGRKRSLQALEAIEKLQKNVDTLIVIPNDRLLDIADEQTPLQDAFLLADDV
SEQ ID NO: 11  SEQ ID NO: 12  SEQ ID NO: 13  SEQ ID NO: 14  SEQ ID NO: 15  Mitochondrial Fts  SEQ ID NO: 16  SEQ ID NO: 4  SEQ ID NO: 4  SEQ ID NO: 2  Chloroplast FtsZ  SEQ ID NO: 19  SEQ ID NO: 20  SEQ ID NO: 21  SEQ ID NO: 21  SEQ ID NO: 22  SEQ ID NO: 23  SEQ ID NO: 23  SEQ ID NO: 24  SEQ ID NO: 24  SEQ ID NO: 25  SEQ ID NO: 25  SEQ ID NO: 26  SEQ ID NO: 27  SEQ ID NO: 28  SEQ ID NO: 29  SEQ ID NO: 30	GVVTKPFHFEGGRRMRLAEQGIEELQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFHFEGGRRMRIADQGISDLQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFQFEGARRMKTAEAGIEELQKSVDTLIVIPNQNLFRIANEKTTFSDAFAMADQV GVVTKPFHFEGGHRMKTADKGLIELQQFVDTLIVIPNQNLFRIANEQTTFADAFKMADDV GVVTKPFHFEGGHRMKTADKGLIELQQFVDTLIVIPNQNLFRIANEQTTFADAFKMADDV GVVTKPFHFEGRIRMKTAEQGIVELTEHVDTMLVIPNQNLFRVANERTTFAEAFGMADQV  8.Z  AVVTKPFHFEGMIRMKTAEQGIVELTEHVDTMLVIPNQNLFKVASPRTSFLDAFRLADHV AVVTKPFRFEGNNRAKLAAQGLAELKDSVDTMLVIPNQNLFNMSNERTSLMDAFRMADNV AVVTKPFSFEGKHRARLANEGIRSLEDRVDTLIIIPNQNIFKLINASTSMADAFGLADDI GVVSTPFRSEGPNRTRLANAGVKELAKYVDTLIVVPNQNLLALADKSTTMLEAFRYADDV  GIVTTPFSFEGRRRAVQAQEGIAALRDNVDTLIVIPNDKLLTAVSPSTPVTEAFNLADDI GIVTTPFSFEGRRRAVQAQEGIAALRENVDTLIVIPNDKLLTAVSPSTPVTEAFNLADDI GIVTTPFAFEGRRRAVQAHEGIAALKNNVDTLITIPNNKLLTAVAQSTPVTEAFNLADDI GIVTTPFAFEGRRRAVQAHEGIAALKNNVDTLITIPNNKLLTAVAQSTPVTEAFNLADDI GVVTKPFAFEGKRRMQQANDAILNLRNKVDTLIVVSNDKLLQIVPDNTPLQDAFSVADDI GVVTKPFGFEGRKRMQQARNAILEMKDKVDTLIVVSNDKLLKIVPDNTPLTEAFLVADDI GVVTKPFFFEGRRRSVQALEGIAALKNNVDTLIIIPNNKLLEVIPEQTPVQEAFRYADDV GIVTTPFTFEGRRRAKQAEEGINALQSRVDTLIVIPNNQLLSVIPAETPLQEAFRVADDI GVVTYPFSFEGRKRSLQALEAIEKLQKNVDTLIVIPNDRLLDIADEQTPLQDAFLLADDV GVVTYPFSFEGRKRSLQALEAIEKLQKNVDTLIVIPNDRLLDIADEQTPLQDAFLLADDV GVVTYPFSFEGRKRSVQALEAIEKLQKNVDTLIVIPNDRLLDIADEQTPLQDAFLLADDV GVVTYPFSFEGRKRSVQALEAIEKLQKNVDTLIVIPNDRLLDIADEQTPLQDAFLLADDV
SEQ ID NO: 11  SEQ ID NO: 12  SEQ ID NO: 13  SEQ ID NO: 14  SEQ ID NO: 15  Mitochondrial Fts  SEQ ID NO: 16  SEQ ID NO: 4  SEQ ID NO: 4  SEQ ID NO: 2  Chloroplast FtsZ  SEQ ID NO: 19  SEQ ID NO: 20  SEQ ID NO: 21  SEQ ID NO: 21  SEQ ID NO: 22  SEQ ID NO: 23  SEQ ID NO: 23  SEQ ID NO: 24  SEQ ID NO: 24  SEQ ID NO: 25  SEQ ID NO: 25  SEQ ID NO: 26  SEQ ID NO: 27  SEQ ID NO: 28  SEQ ID NO: 28  SEQ ID NO: 28  SEQ ID NO: 29	GVVTKPFHFEGGRRMRLAEQGIEELQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFHFEGGRRMRIADQGISDLQKSVDTLIVIPNQNLFRIANDKTTFADAFAMADQV GVVTKPFHFEGGRRMKTAEAGIEELQKSVDTLIVIPNQNLFRIANEKTTFSDAFAMADQV GVVTKPFHFEGGHRMKTADKGLIELQQFVDTLIVIPNQNLFRIANEKTTFSDAFAMADQV GVVTKPFHFEGGHRMKTADKGLIELQQFVDTLIVIPNQNLFRIANEQTTFADAFKMADDV GVVTKPFHFEGRIRMKTAEQGIVELTEHVDTMLVIPNQNLFRVANERTTFAEAFGMADQV  8.Z  AVVTKPFHFEGMIRMKTAEQGIVELTEHVDTMLVIPNQNLFKVASPRTSFLDAFRLADHV AVVTKPFSFEGKHRARLANEGIRSLEDRVDTLIIIPNQNIFKVASPRTSSLDAFRLADHV GVVSTPFRSEGPNRTRLANAGVKELAKYVDTLIVVPNQNLFNMSNERTSLMDAFRMADNV GVVSTPFRSEGPNRTRLANAGVKELAKYVDTLIVVPNQNLLALADKSTTMLEAFRYADDV  GIVTTPFSFEGRRRAVQAQEGIAALRDNVDTLIVIPNDKLLTAVSPSTPVTEAFNLADDI GIVTTPFSFEGRRRAVQAQEGIAALRENVDTLIVIPNDKLLTAVSPSTPVTEAFNLADDI GIVTTPFAFEGRRRAVQAHEGIAALKNNVDTLITIPNNKLLTAVAQSTPVTEAFNLADDI GIVTTPFAFEGRRRAVQAHEGIAALKNNVDTLITIPNNKLLTAVAQSTPVTEAFNLADDI GVVTKPFAFEGKRRMQQANDAILNLRNKVDTLIVVSNDKLLQIVPDNTPLQDAFSVADDI GVVTKPFGFEGRRRAVQARAGIEGLKSRVDTLIVVSNDKLLKIVPDNTPLTEAFLVADDI GVVTKPFGFEGRRRAVQAEGINALCHKDKVDTLIVVSNDKLLKIVPDNTPLTEAFLVADDI GVVTRPFVFEGRRRTSQAEQGIEGLKSRVDTLIVIPNNKLLEVIPEQTPVQEAFRYADDV GIVTTPFFFEGRRRAKQAEEGINALQSRVDTLIVIPNDRLLDIADEQTPLQDAFLLADDV GVVTYPFSFEGRKRSLQALEAIEKLQKNVDTLIVIPNDRLLDIADEQMPLQDAFRLADDV GVVTYPFSFEGRKRSLQALEAIEKLQKNVDTLIVIPNDRLLDIADEQTPLQDAFLLADDV

Bacterial FtsZ	180 230
SEQ ID NO: 11	LYSGVACITDLMVKEGLINLDFADVRSVMREMARPMMGTGEASGPARAMQAAEAAI
SEQ ID NO: 12	LYSGVACITDLMVKEGLINLDFADVRSVMREMGRAMMGTGEASGEGRAMAAAEAAI
SEQ ID NO: 13	LYSGVASITDLMIKEGLINLDFADVRSVMHEMGRAMMGTGEASGDGRALAAAEAAI
SEQ ID NO: 14	LHAGVRGVTDLMIMPGLINLDFADIKAVMSEMGKAMMGTGEDSGEDRAIKAAESAI
	LHSGVRSITDLMVLPGLINLDFADVRTVMTEMGKAMMGTGEGTAEDRALMAAQNAI
SEQ ID NO: 15	
Mitochondrial Fts	<u>LYSGVRSITDLMTVPGLINLDFADVRSVVREMGRAMMGSGEVEMEAGNEERAIRASEAAI</u>
SEQ ID NO: 16	LLDGVKNISDLMVMPGLINLDFADVQSVMQNMGNAMMGSGEADGENRALRAAEDAL
SEQ ID NO: 4	LLAGVKSITDLMVRPGLINLDFADVRTVMSGMGHAIMGTGQAEGEDRAIRAANDAL
SEQ ID NO: 17	LLAGVKSITDLMVRPGLINLDFADVRIVMSGMGHAIMGIGGAEGEDIGITIGEMEND
SEQ ID NO: 2	LLEGVKGVTDLIVRPGLINL
Chloroplast FtsZ	A COMPANY OF THE PROPERTY OF T
SEQ ID NO: 18	LRQGVRGISDIITIPGLVNVDFADVRAIMANAGSSLMGIGTATGKTRARDAALNAI
SEQ ID NO: 19	LRQGVRGISDIITIPGLVNVDFADVRAIMANAGSSLMGIGTATGKTRARDAALNAI
SEQ ID NO: 20	LRQGVRGISDIITIPGLVNVDFADVRAIMANAGSSLMGIGTATGKSRARDAALNAI
SEQ ID NO: 21	LRQGVRGISDIITVPGLVNVDFADVRAIMANAGSSLMGIGTATGKSRAREAALSAI
SEQ ID NO: 22	LRQGVRGISDIITVPGLVNVDFADVRAIMANAGSSLMGIGTATGKSKAREAALSAI
SEQ ID NO: 23	LROGVVGISEIIVRPGLINVDFADVRSVMADAGSALMGIGTGSGKTRAQDAAVAAI
SEQ ID NO: 24	LROGVYGITEIIVKPGLVNVDFADVRTIMGNAGTALMGIGHGKGKNRAKDAALSAI
SEQ ID NO: 25	LRQGVQGISDIITIPGLVNVDFADVRAVMADAGSALMGIGVSSGKSRAREAAIAAI
SEQ ID NO: 25	LRQGVQGISDIIIIPGLVNVDFADVRAVMADAGSALMGIGVGSGKSRAKEAATAAI
	LRQGVQGISDIITIPGLVNVDFADVKAVMKDSGTAMLGVGVSSSKNRAEEAAEQAT
SEQ ID NO: 27	LRQGVQGISDIITIPGLVNVDFADVKAVMKDSGTAMLGVGVSSGKNRAEEAAEQAT
SEQ ID NO: 28	LRQGVQGISDIITIPGLVNVDFADVKAVMKDSGTAMLGVGVSSSKNRAEEAAEQAT
SEQ ID NO: 29	LRQGVQGISDIITIPGLVNVDFADVKAVMKDSGTAMLGVGVSSSKNRAEEAAEQAT
SEQ ID NO: 30	LRQGVQGISDITTIPGLVNVDFADVKAVMKDSGIAMIGVGVSSSKNIGHERIASCAT
SEQ ID NO: 31	LCQGVQGISDIITIPGLVNVDFADVKAIMKDSGTAMLGVGVSSSRNRAEEAAEQAT
SEQ ID NO: 32	LCQGVQGISDIITIPGLVNVDFADVKAIMKDSGTAMLGVGVSSSRNRAEEAAEQAT
	200
Bacterial FtsZ	240 290
SEQ ID NO: 11	ANPLLD ETSMKGAOGLLISITGGRDLTLFEVDEAATRIREEVDP.DANIILGATFDEAL
SEQ ID NO: 11 SEQ ID NO: 12	ANPLLD.ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP.DANIILGATFDEAL
SEQ ID NO: 11	ANPLLD.ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP.DANIILGATFDEAL ANPLLD.ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP.DANIILGATFDEEL ANPLLD.DTSMRGARGLLISITGGRDMTLFEVDEAANRIREEVDA.DANVIFGAIDDESL
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13	ANPLLD.ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP.DANIILGATFDEAL ANPLLD.ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP.DANIILGATFDEEL ANPLLD.DTSMRGARGLLISITGGRDMTLFEVDEAANRIREEVDA.DANVIFGAIDDESL SNPLLD.HSSMCGARGVLINITGGPDMTLFEVDNAANRIREEVDNIDANIIFGSTFNPEL
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13 SEQ ID NO: 14	ANPLLD.ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP.DANIILGATFDEAL ANPLLD.ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP.DANIILGATFDEEL ANPLLD.DTSMRGARGLLISITGGRDMTLFEVDEAANRIREEVDA.DANVIFGAIDDESL SNPLLD.HSSMCGARGVLINITGGPDMTLFEVDNAANRIREEVDNIDANIIFGSTFNPEL
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13 SEQ ID NO: 14 SEQ ID NO: 15	ANPLLD.ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP.DANIILGATFDEAL ANPLLD.ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP.DANIILGATFDEEL ANPLLD.DTSMRGARGLLISITGGRDMTLFEVDEAANRIREEVDA.DANVIFGAIDDESL SNPLLD.HSSMCGARGVLINITGGPDMTLFEVDNAANRIREEVDNIDANIIFGSTFNPEL ANPLLD.EVSLKGAKAVLVNVTGGMDMTLLEVDEAANAISDQVDP.EANIIFGAAFDPSL
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13 SEQ ID NO: 14 SEQ ID NO: 15 Mitochondrial Fts	ANPLLD.ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP.DANIILGATFDEAL ANPLLD.ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP.DANIILGATFDEEL ANPLLD.DTSMRGARGLLISITGGRDMTLFEVDEAANRIREEVDA.DANVIFGAIDDESL SNPLLD.HSSMCGARGVLINITGGPDMTLFEVDNAANRIREEVDNIDANIIFGSTFNPEL ANPLLD.EVSLKGAKAVLVNVTGGMDMTLLEVDEAANAISDQVDP.EANIIFGAAFDPSL SZ CNPLLD.ETSLRGARGVLVNITGGTDMTLFEIDAAANRIREQVDP.DANIIFGSAFDASM
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13 SEQ ID NO: 14 SEQ ID NO: 15 Mitochondrial Fts SEQ ID NO: 16	ANPLLD.ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP.DANIILGATFDEAL ANPLLD.ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP.DANIILGATFDEEL ANPLLD.DTSMRGARGLLISITGGRDMTLFEVDEAANRIREEVDA.DANVIFGAIDDESL SNPLLD.HSSMCGARGVLINITGGPDMTLFEVDNAANRIREEVDNIDANIIFGSTFNPEL ANPLLD.EVSLKGAKAVLVNVTGGMDMTLLEVDEAANAISDQVDP.EANIIFGAAFDPSL SZ CNPLLD.ETSLRGARGVLVNITGGTDMTLFEIDAAANRIREQVDP.DANIIFGSAFDASM ANPLLG.DISIKDAKGMIVNITGGSDLTLFEVDEAAERVTRELDDPHANIIFGSTFDDSL
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13 SEQ ID NO: 14 SEQ ID NO: 15 Mitochondrial Fts SEQ ID NO: 16 SEQ ID NO: 4	ANPLLD.ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP.DANIILGATFDEAL ANPLLD.ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP.DANIILGATFDEEL ANPLLD.DTSMRGARGLLISITGGRDMTLFEVDEAANRIREEVDA.DANVIFGAIDDESL SNPLLD.HSSMCGARGVLINITGGPDMTLFEVDNAANRIREEVDNIDANIIFGSTFNPEL ANPLLD.EVSLKGAKAVLVNVTGGMDMTLLEVDEAANAISDQVDP.EANIIFGAAFDPSL SZ CNPLLD.ETSLRGARGVLVNITGGTDMTLFEIDAAANRIREQVDP.DANIIFGSAFDASM ANPLLG.DISIKDAKGMIVNITGGSDLTLFEVDEAAERVTRELDDPHANIIFGSTFDDSL
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13 SEQ ID NO: 14 SEQ ID NO: 15 Mitochondrial Ft: SEQ ID NO: 16 SEQ ID NO: 4 SEQ ID NO: 17	ANPLLD. ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP. DANIILGATFDEAL ANPLLD. ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP. DANIILGATFDEEL ANPLLD. DTSMRGARGLLISITGGRDMTLFEVDEAANRIREEVDA. DANVIFGAIDDESL SNPLLD. HSSMCGARGVLINITGGPDMTLFEVDNAANRIREEVDNIDANIIFGSTFNPEL ANPLLD. EVSLKGAKAVLVNVTGGMDMTLLEVDEAANAISDQVDP. EANIIFGAAFDPSL SZ  CNPLLD. ETSLRGARGVLVNITGGTDMTLFEIDAAANRIREQVDP. DANIIFGSAFDASM ANPLLG. DISIKDAKGMIVNITGGSDLTLFEVDEAAERVTRELDDPHANIIFGSTFDDSL NNPLLGGDFSVRSAKGMLVNITGGKDLTLVEVDAAAQRITSEIEDEDANVIFGSSFDESL
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13 SEQ ID NO: 14 SEQ ID NO: 15 Mitochondrial Ft: SEQ ID NO: 16 SEQ ID NO: 4 SEQ ID NO: 17 SEQ ID NO: 2	ANPLLD.ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP.DANIILGATFDEAL ANPLLD.ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP.DANIILGATFDEEL ANPLLD.DTSMRGARGLLISITGGRDMTLFEVDEAANRIREEVDA.DANVIFGAIDDESL SNPLLD.HSSMCGARGVLINITGGPDMTLFEVDNAANRIREEVDNIDANIIFGSTFNPEL ANPLLD.EVSLKGAKAVLVNVTGGMDMTLLEVDEAANAISDQVDP.EANIIFGAAFDPSL SZ CNPLLD.ETSLRGARGVLVNITGGTDMTLFEIDAAANRIREQVDP.DANIIFGSAFDASM ANPLLG.DISIKDAKGMIVNITGGSDLTLFEVDEAAERVTRELDDPHANIIFGSTFDDSL
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13 SEQ ID NO: 14 SEQ ID NO: 15 Mitochondrial Ft: SEQ ID NO: 16 SEQ ID NO: 4 SEQ ID NO: 17 SEQ ID NO: 2 Chloroplast FtsZ	ANPLLD.ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP.DANIILGATFDEAL ANPLLD.ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP.DANIILGATFDEEL ANPLLD.DTSMRGARGLLISITGGRDMTLFEVDEAANRIREEVDA.DANVIFGAIDDESL SNPLLD.HSSMCGARGVLINITGGPDMTLFEVDNAANRIREEVDNIDANIIFGSTFNPEL ANPLLD.EVSLKGAKAVLVNVTGGMDMTLLEVDEAANAISDQVDP.EANIIFGAAFDPSL SZ CNPLLD.ETSLRGARGVLVNITGGTDMTLFEIDAAANRIREQVDP.DANIIFGSAFDASM ANPLLG.DISIKDAKGMIVNITGGSDLTLFEVDEAAERVTRELDDPHANIIFGSTFDDSL NNPLLGGDFSVRSAKGMLVNITGGKDLTLVEVDAAAQRITSEIEDEDANVIFGSSFDESL
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13 SEQ ID NO: 14 SEQ ID NO: 15 Mitochondrial Ft: SEQ ID NO: 16 SEQ ID NO: 4 SEQ ID NO: 17 SEQ ID NO: 2 Chloroplast FtsZ SEQ ID NO: 18	ANPLLD.ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP.DANIILGATFDEAL ANPLLD.ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP.DANIILGATFDEEL ANPLLD.DTSMRGARGLLISITGGRDMTLFEVDEAANRIREEVDA.DANVIFGAIDDESL SNPLLD.HSSMCGARGVLINITGGPDMTLFEVDNAANRIREEVDNIDANIIFGSTFNPEL ANPLLD.EVSLKGAKAVLVNVTGGMDMTLLEVDEAANAISDQVDP.EANIIFGAAFDPSL  CNPLLD.ETSLRGARGVLVNITGGTDMTLFEIDAAANRIREQVDP.DANIIFGSAFDASM ANPLLG.DISIKDAKGMIVNITGGSDLTLFEVDEAAERVTRELDDPHANIIFGSTFDDSL NNPLLGGDFSVRSAKGMLVNITGGKDLTLVEVDAAAQRITSEIEDEDANVIFGSSFDESL OSPLLD.IGIERATGIVWNITGGSDLTLFEVNAAAEVIYDLVDP.SANLIFGAVVDPSL
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13 SEQ ID NO: 14 SEQ ID NO: 15 Mitochondrial Fts SEQ ID NO: 16 SEQ ID NO: 4 SEQ ID NO: 17 SEQ ID NO: 2 Chloroplast FtsZ SEQ ID NO: 18 SEQ ID NO: 19	ANPLLD. ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP. DANIILGATFDEAL ANPLLD. ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP. DANIILGATFDEEL ANPLLD. DTSMRGARGLLISITGGRDMTLFEVDEAANRIREEVDA. DANVIFGAIDDESL SNPLLD. HSSMCGARGVLINITGGPDMTLFEVDNAANRIREEVDNIDANIIFGSTFNPEL ANPLLD. EVSLKGAKAVLVNVTGGMDMTLLEVDEAANAISDQVDP. EANIIFGAAFDPSL SZ CNPLLD. ETSLRGARGVLVNITGGTDMTLFEIDAAANRIREQVDP. DANIIFGSAFDASM ANPLLG. DISIKDAKGMIVNITGGSDLTLFEVDEAAERVTRELDDPHANIIFGSTFDDSL NNPLLGGDFSVRSAKGMLVNITGGKDLTLVEVDAAAQRITSEIEDEDANVIFGSSFDESL QSPLLD. IGIERATGIVWNITGGSDLTLFEVNAAAEVIYDLVDP. SANLIFGAVVDPSL OSPLLD. IGIERATGIVWNITGGSDLTLFEVNAAAEVIYDLVDP. SANLIFGAVVDPSI
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13 SEQ ID NO: 14 SEQ ID NO: 15 Mitochondrial Fts SEQ ID NO: 16 SEQ ID NO: 4 SEQ ID NO: 17 SEQ ID NO: 2 Chloroplast FtsZ SEQ ID NO: 18 SEQ ID NO: 19 SEQ ID NO: 20	ANPLLD. ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP. DANIILGATFDEAL ANPLLD. ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP. DANIILGATFDEEL ANPLLD. DTSMRGARGLLISITGGRDMTLFEVDEAANRIREEVDA. DANVIFGAIDDESL SNPLLD. HSSMCGARGVLINITGGPDMTLFEVDNAANRIREEVDNIDANIIFGSTFNPEL ANPLLD. EVSLKGAKAVLVNVTGGMDMTLLEVDEAANAISDQVDP. EANIIFGAAFDPSL SZ  CNPLLD. ETSLRGARGVLVNITGGTDMTLFEIDAAANRIREQVDP. DANIIFGSAFDASM ANPLLG. DISIKDAKGMIVNITGGSDLTLFEVDEAAERVTRELDDPHANIIFGSTFDDSL NNPLLGGDFSVRSAKGMLVNITGGKDLTLVEVDAAAQRITSEIEDEDANVIFGSSFDESL QSPLLD. IGIERATGIVWNITGGSDLTLFEVNAAAEVIYDLVDP. SANLIFGAVVDPSL QSPLLD. IGIERATGIVWNITGGSDLTLFEVNAAAEVIYDLVDP. SANLIFGAVVDPSL OSPLLD. IGIERATGIVWNITGGSDLTLFEVNAAAEVIYDLVDP. TANLIFGAVVDPAL
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13 SEQ ID NO: 14 SEQ ID NO: 15 Mitochondrial Fts SEQ ID NO: 16 SEQ ID NO: 4 SEQ ID NO: 17 SEQ ID NO: 2 Chloroplast FtsZ SEQ ID NO: 18 SEQ ID NO: 19 SEQ ID NO: 20 SEQ ID NO: 20	ANPLLD. ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP. DANIILGATFDEAL ANPLLD. ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP. DANIILGATFDEEL ANPLLD. DTSMRGARGLLISITGGRDMTLFEVDEAANRIREEVDA. DANVIFGAIDDESL SNPLLD. HSSMCGARGVLINITGGPDMTLFEVDNAANRIREEVDNIDANIIFGSTFNPEL ANPLLD. EVSLKGAKAVLVNVTGGMDMTLLEVDEAANAISDQVDP. EANIIFGAAFDPSL SZ  CNPLLD. ETSLRGARGVLVNITGGTDMTLFEIDAAANRIREQVDP. DANIIFGSAFDASM ANPLLG. DISIKDAKGMIVNITGGSDLTLFEVDEAAERVTRELDDPHANIIFGSTFDDSL NNPLLGGDFSVRSAKGMLVNITGGKDLTLVEVDAAAQRITSEIEDEDANVIFGSSFDESL QSPLLD. IGIERATGIVWNITGGSDLTLFEVNAAAEVIYDLVDP. SANLIFGAVVDPSL QSPLLD. IGIERATGIVWNITGGSDLTLFEVNAAAEVIYDLVDP. TANLIFGAVVDPAL OSPLLD. VGIERATGIVWNITGGSDMTLFEVNAAAEVIYDLVDP. NANLIFGAVVDPAL
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13 SEQ ID NO: 14 SEQ ID NO: 15 Mitochondrial Ft: SEQ ID NO: 16 SEQ ID NO: 4 SEQ ID NO: 4 SEQ ID NO: 2 Chloroplast FtsZ SEQ ID NO: 18 SEQ ID NO: 19 SEQ ID NO: 20 SEQ ID NO: 21 SEQ ID NO: 21 SEQ ID NO: 22	ANPLLD. ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP. DANIILGATFDEAL ANPLLD. ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP. DANIILGATFDEEL ANPLLD. DTSMRGARGLLISITGGRDMTLFEVDEAANRIREEVDA. DANVIFGAIDDESL SNPLLD. HSSMCGARGVLINITGGPDMTLFEVDNAANRIREEVDNIDANIIFGSTFNPEL ANPLLD. EVSLKGAKAVLVNVTGGMDMTLLEVDEAANAISDQVDP. EANIIFGAAFDPSL SZ  CNPLLD. ETSLRGARGVLVNITGGTDMTLFEIDAAANRIREQVDP. DANIIFGSAFDASM ANPLLG. DISIKDAKGMIVNITGGSDLTLFEVDEAAERVTRELDDPHANIIFGSTFDDSL NNPLLGGDFSVRSAKGMLVNITGGKDLTLVEVDAAAQRITSEIEDEDANVIFGSSFDESL QSPLLD. IGIERATGIVWNITGGSDLTLFEVNAAAEVIYDLVDP. SANLIFGAVVDPSL QSPLLD. IGIERATGIVWNITGGSDLTLFEVNAAAEVIYDLVDP. TANLIFGAVVDPAL QSPLLD. VGIERATGIVWNITGGSDMTLFEVNAAAEVIYDLVDP. NANLIFGAVVDEAL OSPLLD. VGIERATGIVWNITGGSDMTLFEVNAAAEVIYDLVDP. NANLIFGAVVDEAL
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13 SEQ ID NO: 14 SEQ ID NO: 15 Mitochondrial Ft: SEQ ID NO: 16 SEQ ID NO: 4 SEQ ID NO: 4 SEQ ID NO: 2 Chloroplast FtsZ SEQ ID NO: 19 SEQ ID NO: 20 SEQ ID NO: 21 SEQ ID NO: 21 SEQ ID NO: 22	ANPLLD. ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP. DANIILGATFDEAL ANPLLD. ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP. DANIILGATFDEEL ANPLLD. DTSMRGARGLLISITGGRDMTLFEVDEAANRIREEVDA. DANVIFGAIDDESL SNPLLD. HSSMCGARGVLINITGGPDMTLFEVDNAANRIREEVDNIDANIIFGSTFNPEL ANPLLD. EVSLKGAKAVLVNVTGGMDMTLLEVDEAANAISDQVDP. EANIIFGAAFDPSL SZ  CNPLLD. ETSLRGARGVLVNITGGTDMTLFEIDAAANRIREQVDP. DANIIFGSAFDASM ANPLLG. DISIKDAKGMIVNITGGSDLTLFEVDEAAERVTRELDDPHANIIFGSTFDDSL NNPLLGGDFSVRSAKGMLVNITGGKDLTLVEVDAAAQRITSEIEDEDANVIFGSSFDESL QSPLLD. IGIERATGIVWNITGGSDLTLFEVNAAAEVIYDLVDP. SANLIFGAVVDPSL QSPLLD. IGIERATGIVWNITGGSDLTLFEVNAAAEVIYDLVDP. TANLIFGAVVDPAL QSPLLD. VGIERATGIVWNITGGSDMTLFEVNAAAEVIYDLVDP. NANLIFGAVVDPAL QSPLLD. VGIERATGIVWNITGGSDMTLFEVNAAAEVIYDLVDP. NANLIFGAVVDEAL SSPLLD. FPIEKARGIVFNITGGODMTLHEINSAAEVIYEAVDS. NANIIFGAVVDEAL
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13 SEQ ID NO: 14 SEQ ID NO: 15 Mitochondrial Fts SEQ ID NO: 16 SEQ ID NO: 4 SEQ ID NO: 17 SEQ ID NO: 2 Chloroplast FtsZ SEQ ID NO: 18 SEQ ID NO: 19 SEQ ID NO: 20 SEQ ID NO: 21 SEQ ID NO: 21 SEQ ID NO: 22 SEQ ID NO: 23 SEQ ID NO: 23 SEQ ID NO: 24	ANPLLD. ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP. DANIILGATFDEAL ANPLLD. ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP. DANIILGATFDEEL ANPLLD. DTSMRGARGLLISITGGRDMTLFEVDEAANRIREEVDA. DANVIFGAIDDESL SNPLLD. HSSMCGARGVLINITGGPDMTLFEVDNAANRIREEVDNIDANIIFGSTFNPEL ANPLLD. EVSLKGAKAVLVNVTGGMDMTLLEVDEAANAISDQVDP. EANIIFGAAFDPSL SZ  CNPLLD. ETSLRGARGVLVNITGGTDMTLFEIDAAANRIREQVDP. DANIIFGSAFDASM ANPLLG. DISIKDAKGMIVNITGGSDLTLFEVDEAAERVTRELDDPHANIIFGSTFDDSL NNPLLGGDFSVRSAKGMLVNITGGKDLTLVEVDAAAQRITSEIEDEDANVIFGSSFDESL QSPLLD. IGIERATGIVWNITGGSDLTLFEVNAAAEVIYDLVDP. SANLIFGAVVDPSL QSPLLD. IGIERATGIVWNITGGSDLTLFEVNAAAEVIYDLVDP. TANLIFGAVVDPAL QSPLLD. VGIERATGIVWNITGGSDMTLFEVNAAAEVIYDLVDP. NANLIFGAVVDPAL QSPLLD. VGIERATGIVWNITGGSDMTLFEVNAAAEVIYDLVDP. NANLIFGAVVDEAL SSPLLD. FPIEKARGIVFNITGGQDMTLHEINSAAEVIYEAVDS. NANIIFGAVVDEAL SSPLLD. FPIEKARGIVFNITGGQDMTLHEINSAAEVIYEAVDS. NANIIFGAMVDDKM
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13 SEQ ID NO: 14 SEQ ID NO: 15 Mitochondrial Ft: SEQ ID NO: 16 SEQ ID NO: 4 SEQ ID NO: 4 SEQ ID NO: 2 Chloroplast FtsZ SEQ ID NO: 19 SEQ ID NO: 20 SEQ ID NO: 21 SEQ ID NO: 21 SEQ ID NO: 22	ANPLLD.ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP.DANIILGATFDEAL ANPLLD.ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP.DANIILGATFDEAL ANPLLD.DTSMRGARGLLISITGGRDMTLFEVDEAANRIREEVDA.DANVIFGAIDDESL SNPLLD.HSSMCGARGVLINITGGPDMTLFEVDNAANRIREEVDNIDANIIFGSTFNPEL ANPLLD.EVSLKGAKAVLVNVTGGMDMTLLEVDEAANAISDQVDP.EANIIFGAAFDPSL  CNPLLD.ETSLRGARGVLVNITGGTDMTLFEIDAAANRIREQVDP.DANIIFGSAFDASM ANPLLG.DISIKDAKGMIVNITGGSDLTLFEVDEAAERVTRELDDPHANIIFGSTFDDSL NNPLLGGDFSVRSAKGMLVNITGGKDLTLVEVDAAAQRITSEIEDEDANVIFGSSFDESL  QSPLLD.IGIERATGIVWNITGGSDLTLFEVNAAAEVIYDLVDP.SANLIFGAVVDPSL QSPLLD.IGIERATGIVWNITGGSDLTLFEVNAAAEVIYDLVDP.TANLIFGAVVDPSL QSPLLD.VGIERATGIVWNITGGSDMTLFEVNAAAEVIYDLVDP.NANLIFGAVVDPAL QSPLLD.VGIERATGIVWNITGGSDMTLFEVNAAAEVIYDLVDP.NANLIFGAVVDEAL SSPLLD.FPIEKARGIVFNITGGSDMTLFEVNAAAEVIYDLVDP.NANLIFGAVVDEAL SSPLLD.FPITRAKGIVFNITGGSDMSLQEINAAAEVIYENVDQ.DANIIFGAMVDDKM SSPLLD.FPITRAKGIVFNIVGGSDMSLQEINAAAEVIYENVDQ.DANIIFGAMVDDKM SSPLLD.FPITRAKGIVFNIVGGSDMSLQEINAAAEVIYENVDQ.DANIIFGAMVDDKM
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13 SEQ ID NO: 14 SEQ ID NO: 15 Mitochondrial Ft: SEQ ID NO: 16 SEQ ID NO: 16 SEQ ID NO: 4 SEQ ID NO: 17 SEQ ID NO: 2 Chloroplast FtsZ SEQ ID NO: 19 SEQ ID NO: 20 SEQ ID NO: 21 SEQ ID NO: 21 SEQ ID NO: 22 SEQ ID NO: 22 SEQ ID NO: 23 SEQ ID NO: 24 SEQ ID NO: 24 SEQ ID NO: 25	ANPLLD.ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP.DANIILGATFDEAL ANPLLD.ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP.DANIILGATFDEAL ANPLLD.DTSMRGARGLLISITGGRDMTLFEVDEAANRIREEVDA.DANVIFGAIDDESL SNPLLD.HSSMCGARGVLINITGGPDMTLFEVDNAANRIREEVDNIDANIIFGSTFNPEL ANPLLD.EVSLKGAKAVLVNVTGGMDMTLLEVDEAANAISDQVDP.EANIIFGAAFDPSL  CNPLLD.ETSLRGARGVLVNITGGTDMTLFEIDAAANRIREQVDP.DANIIFGSAFDASM ANPLLG.DISIKDAKGMIVNITGGSDLTLFEVDEAAERVTRELDDPHANIIFGSTFDDSL NNPLLGGDFSVRSAKGMLVNITGGKDLTLVEVDAAAQRITSEIEDEDANVIFGSSFDESL  QSPLLD.IGIERATGIVWNITGGSDLTLFEVNAAAEVIYDLVDP.SANLIFGAVVDPSL QSPLLD.IGIERATGIVWNITGGSDLTLFEVNAAAEVIYDLVDP.TANLIFGAVVDPSL QSPLLD.VGIERATGIVWNITGGSDMTLFEVNAAAEVIYDLVDP.NANLIFGAVVDPAL QSPLLD.VGIERATGIVWNITGGSDMTLFEVNAAAEVIYDLVDP.NANLIFGAVVDEAL SSPLLD.FPIEKARGIVFNITGGSDMTLFEVNAAAEVIYDLVDP.NANLIFGAVVDEAL SSPLLD.FPIEKARGIVFNITGGSDMTLFEVNAAAEVIYENVDQ.DANIIFGAVVDEAL SSPLLD.FPITRAKGIVFNITGGSDMSLQEINAAAEVIYENVDQ.DANIIFGAWVDDKM SSPLLD.SSIGGARGVVFNITGGSDLTLHEVNAAAETIYEVVDP.NANIIFGAVIDDRL SSPLLE.CSIEGARGVVFNITGGSDLTLHEVNAAAETIYEVVDP.NANIIFGAVIDDRL
SEQ ID NO: 11  SEQ ID NO: 12  SEQ ID NO: 13  SEQ ID NO: 14  SEQ ID NO: 15  Mitochondrial Ft:  SEQ ID NO: 16  SEQ ID NO: 16  SEQ ID NO: 4  SEQ ID NO: 17  SEQ ID NO: 2  Chloroplast FtsZ  SEQ ID NO: 19  SEQ ID NO: 20  SEQ ID NO: 21  SEQ ID NO: 21  SEQ ID NO: 22  SEQ ID NO: 23  SEQ ID NO: 24  SEQ ID NO: 24  SEQ ID NO: 25  SEQ ID NO: 26	ANPLLD. ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP. DANIILGATFDEAL ANPLLD. ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP. DANIILGATFDEAL ANPLLD. DTSMRGARGLLISITGGRDMTLFEVDEAANRIREEVDA. DANVIFGAIDDESL SNPLLD. HSSMCGARGVLINITGGPDMTLFEVDNAANRIREEVDNIDANIIFGSTFNPEL ANPLLD. EVSLKGAKAVLVNVTGGMDMTLLEVDEAANAISDQVDP. EANIIFGAAFDPSL  CNPLLD. ETSLRGARGVLVNITGGTDMTLFEIDAAANRIREQVDP. DANIIFGSAFDASM ANPLLG. DISIKDAKGMIVNITGGSDLTLFEVDEAAERVTRELDDPHANIIFGSTFDDSL NNPLLGGDFSVRSAKGMLVNITGGKDLTLVEVDAAAQRITSEIEDEDANVIFGSSFDESL  QSPLLD. IGIERATGIVWNITGGSDLTLFEVNAAAEVIYDLVDP. SANLIFGAVVDPSL QSPLLD. IGIERATGIVWNITGGSDLTLFEVNAAAEVIYDLVDP. TANLIFGAVVDPSL QSPLLD. VGIERATGIVWNITGGSDMTLFEVNAAAEVIYDLVDP. NANLIFGAVVDPAL QSPLLD. VGIERATGIVWNITGGSDMTLFEVNAAAEVIYDLVDP. NANLIFGAVVDEAL SSPLLD. FPIEKARGIVFNITGGSDMTLFEVNAAAEVIYDLVDP. NANLIFGAVVDEAL SSPLLD. FPITRAKGIVFNITGGSDMTLHEINSAAEVIYEAVDS. NANIIFGALVDDMM SSPLLD. FPITRAKGIVFNITGGSDMTLHEINSAAEVIYENVDQ. DANIIFGAMVDDKM SSPLLD. SSIQGAKGVVFNITGGSDLTLHEVNAAAETIYEVVDP. NANIIFGAVIDDRL SSPLLE. SSIQGAKGVVFNITGGSDLTLHEVNVAAEITYEVVDP. SANIIFGAVIDDRL LAPLIG. SSIOSATGVVYNITGGKDITLOEVNRVSQVVTSLADP. SANIIFGAVVDDRY
SEQ ID NO: 11  SEQ ID NO: 12  SEQ ID NO: 13  SEQ ID NO: 14  SEQ ID NO: 15  Mitochondrial Ft:  SEQ ID NO: 16  SEQ ID NO: 16  SEQ ID NO: 4  SEQ ID NO: 17  SEQ ID NO: 2  Chloroplast FtsZ  SEQ ID NO: 19  SEQ ID NO: 20  SEQ ID NO: 21  SEQ ID NO: 21  SEQ ID NO: 22  SEQ ID NO: 22  SEQ ID NO: 23  SEQ ID NO: 24  SEQ ID NO: 25  SEQ ID NO: 25  SEQ ID NO: 26  SEQ ID NO: 26  SEQ ID NO: 26  SEQ ID NO: 27	ANPLLD. ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP. DANIILGATFDEAL ANPLLD. ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP. DANIILGATFDEEL ANPLLD. DTSMRGARGLLISITGGRDMTLFEVDEAANRIREEVDA. DANVIFGAIDDESL SNPLLD. HSSMCGARGVLINITGGPDMTLFEVDNAANRIREEVDNIDANIIFGSTFNPEL ANPLLD. EVSLKGAKAVLVNVTGGMDMTLLEVDEAANAISDQVDP. EANIIFGAAFDPSL  CNPLLD. ETSLRGARGVLVNITGGTDMTLFEIDAAANRIREQVDP. DANIIFGSAFDASM ANPLLG. DISIKDAKGMIVNITGGSDLTLFEVDEAAERVTRELDDPHANIIFGSTFDDSL NNPLLGGDFSVRSAKGMLVNITGGKDLTLFEVNAAAEVIYDLVDP. SANLIFGAVVDPSL QSPLLD. IGIERATGIVWNITGGSDLTLFEVNAAAEVIYDLVDP. SANLIFGAVVDPSL QSPLLD. IGIERATGIVWNITGGSDLTLFEVNAAAEVIYDLVDP. TANLIFGAVVDPSL QSPLLD. VGIERATGIVWNITGGSDMTLFEVNAAAEVIYDLVDP. NANLIFGAVVDPAL QSPLLD. VGIERATGIVWNITGGSDMTLFEVNAAAEVIYDLVDP. NANLIFGAVVDEAL SSPLLD. FPIEKARGIVFNITGGSDMTLFEVNAAAEVIYDLVDP. NANLIFGAVVDEAL SSPLLD. FPITRAKGIVFNIVGGSDMSLQEINAAAEVIYEAVDS. NANIIFGALVDDNM SSPLLD. FPITRAKGIVFNIVGGSDMSLQEINAAAEVIYENVDQ. DANIIFGAWVDDKM SSPLLE. CSIEGARGVVFNITGGSDLTLHEVNAAAETIYEVVDP. NANIIFGAWVDDRL SSPLLE. SSIQGAKGVVFNVTGGTDLTLHEVNVAAETIYEVVDP. SANIIFGAVVDDRL LAPLIG. SSIQSATGVVYNITGGKDITLQEVNRVSQVVTSLADP. SANIIFGAVVDDRY LAPLIG. SSIOSATGVVYNITGGKDITLQEVNRVSQVVTSLADP. SANIIFGAVVDDRY
SEQ ID NO: 11 SEQ ID NO: 12 SEQ ID NO: 13 SEQ ID NO: 14 SEQ ID NO: 15 Mitochondrial Fts SEQ ID NO: 16 SEQ ID NO: 4 SEQ ID NO: 17 SEQ ID NO: 2 Chloroplast FtsZ SEQ ID NO: 18 SEQ ID NO: 19 SEQ ID NO: 20 SEQ ID NO: 21 SEQ ID NO: 21 SEQ ID NO: 22 SEQ ID NO: 23 SEQ ID NO: 23 SEQ ID NO: 24 SEQ ID NO: 25 SEQ ID NO: 25 SEQ ID NO: 26 SEQ ID NO: 27 SEQ ID NO: 27 SEQ ID NO: 28	ANPLLD. ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP. DANIILGATFDEAL ANPLLD. ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP. DANIILGATFDEAL ANPLLD. DTSMRGARGLLISITGGRDMTLFEVDEAANRIREEVDA. DANVIFGAIDDESL SNPLLD. HSSMCGARGVLINITGGPDMTLFEVDNAANRIREEVDNIDANIIFGSTFNPEL ANPLLD. EVSLKGAKAVLVNVTGGMDMTLLEVDEAANAISDQVDP. EANIIFGAAFDPSL  Z  CNPLLD. ETSLRGARGVLVNITGGTDMTLFEIDAAANRIREQVDP. DANIIFGSAFDASM ANPLLG. DISIKDAKGMIVNITGGSDLTLFEVDEAAERVTRELDDPHANIIFGSTFDDSL NNPLLGGDFSVRSAKGMLVNITGGKDLTLVEVDAAAQRITSEIEDEDANVIFGSSFDESL  OSPLLD. IGIERATGIVWNITGGSDLTLFEVNAAAEVIYDLVDP. SANLIFGAVVDPSL QSPLLD. IGIERATGIVWNITGGSDLTLFEVNAAAEVIYDLVDP. TANLIFGAVVDPSL QSPLLD. VGIERATGIVWNITGGSDMTLFEVNAAAEVIYDLVDP. NANLIFGAVVDPAL QSPLLD. VGIERATGIVWNITGGSDMTLFEVNAAAEVIYDLVDP. NANLIFGAVVDEAL SSPLLD. FPIEKARGIVFNITGGODMTLHEINSAAEVIYDLVDP. NANLIFGAVVDEAL SSPLLD. FPITRAKGIVFNITGGSDMSLQEINAAAEVIYENVDQ. DANIIFGANVDDM SSPLLD. FPITRAKGIVFNITGGSDLTLHEVNAAAEVIYENVDQ. DANIIFGAVVDDRL SSPLLE. CSIEGARGVVFNITGGSDLTLHEVNAAAETIYEVVDP. NANLIFGAVIDDRL SSPLLE. SSIQGAKGVVFNVTGGTDLTLHEVNVAAEIIYEVVDP. NANLIFGAVIDDRL LAPLIG. SSIQSATGVYNITGGKDITLQEVNRVSQVVTSLADP. SANIIFGAVVDDRY LAPLIG. SSIOSATGVYNITGGKDITLQEVNRVSQVVTSLADP. SANIIFGAVVDDRY LAPLIG. SSIOSATGVYNITGGKDITLQEVNRVSQVVTSLADP. SANIIFGAVVDDRY
SEQ ID NO: 11  SEQ ID NO: 12  SEQ ID NO: 13  SEQ ID NO: 14  SEQ ID NO: 15  Mitochondrial Ft:  SEQ ID NO: 16  SEQ ID NO: 16  SEQ ID NO: 17  SEQ ID NO: 2  Chloroplast FtsZ  SEQ ID NO: 19  SEQ ID NO: 20  SEQ ID NO: 21  SEQ ID NO: 21  SEQ ID NO: 22  SEQ ID NO: 22  SEQ ID NO: 23  SEQ ID NO: 23  SEQ ID NO: 24  SEQ ID NO: 25  SEQ ID NO: 25  SEQ ID NO: 26  SEQ ID NO: 27  SEQ ID NO: 28  SEQ ID NO: 28  SEQ ID NO: 28  SEQ ID NO: 29	ANPLLD. ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP. DANIILGATFDEAL ANPLLD. ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP. DANIILGATFDEAL ANPLLD. DTSMRGARGLLISITGGRDMTLFEVDEAANRIREEVDA. DANVIFGAIDDESL SNPLLD. HSSMCGARGVLINITGGPDMTLFEVDNAANRIREEVDNIDANIIFGSTFNPEL ANPLLD. EVSLKGAKAVLVNVTGGMDMTLLEVDEAANAISDQVDP. EANIIFGAAFDPSL  Z  CNPLLD. ETSLRGARGVLVNITGGTDMTLFEIDAAANRIREQVDP. DANIIFGSAFDASM ANPLLG. DISIKDAKGMIVNITGGSDLTLFEVDEAAERVTRELDDPHANIIFGSTFDDSL NNPLLGGDFSVRSAKGMLVNITGGKDLTLVEVDAAAQRITSEIEDEDANVIFGSSFDESL  OSPLLD. IGIERATGIVWNITGGSDLTLFEVNAAAEVIYDLVDP. SANLIFGAVVDPSL QSPLLD. IGIERATGIVWNITGGSDLTLFEVNAAAEVIYDLVDP. TANLIFGAVVDPSL QSPLLD. VGIERATGIVWNITGGSDMTLFEVNAAAEVIYDLVDP. NANLIFGAVVDPAL QSPLLD. VGIERATGIVWNITGGSDMTLFEVNAAAEVIYDLVDP. NANLIFGAVVDEAL SSPLLD. FPIEKARGIVFNITGGODMTLHEINSAAEVIYDLVDP. NANLIFGAVVDEAL SSPLLD. FPITRAKGIVFNITGGSDMSLQEINAAAEVIYENVDQ. DANIIFGANVDDM SSPLLD. FPITRAKGIVFNITGGSDLTLHEVNAAAEVIYENVDQ. DANIIFGAVVDDRL SSPLLE. CSIEGARGVVFNITGGSDLTLHEVNAAAETIYEVVDP. NANLIFGAVIDDRL SSPLLE. SSIQGAKGVVFNVTGGTDLTLHEVNVAAEIIYEVVDP. NANLIFGAVIDDRL LAPLIG. SSIQSATGVYNITGGKDITLQEVNRVSQVVTSLADP. SANIIFGAVVDDRY LAPLIG. SSIOSATGVYNITGGKDITLQEVNRVSQVVTSLADP. SANIIFGAVVDDRY LAPLIG. SSIOSATGVYNITGGKDITLQEVNRVSQVVTSLADP. SANIIFGAVVDDRY
SEQ ID NO: 11  SEQ ID NO: 12  SEQ ID NO: 13  SEQ ID NO: 14  SEQ ID NO: 15  Mitochondrial Ft:  SEQ ID NO: 16  SEQ ID NO: 16  SEQ ID NO: 4  SEQ ID NO: 17  SEQ ID NO: 2  Chloroplast FtsZ  SEQ ID NO: 19  SEQ ID NO: 20  SEQ ID NO: 21  SEQ ID NO: 21  SEQ ID NO: 22  SEQ ID NO: 22  SEQ ID NO: 23  SEQ ID NO: 23  SEQ ID NO: 24  SEQ ID NO: 25  SEQ ID NO: 26  SEQ ID NO: 27  SEQ ID NO: 28  SEQ ID NO: 29  SEQ ID NO: 29  SEQ ID NO: 29  SEQ ID NO: 29  SEQ ID NO: 30	ANPLLD.ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP.DANIILGATFDEAL ANPLLD.ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP.DANIILGATFDEAL ANPLLD.DTSMRGARGLLISITGGRDMTLFEVDEAANRIREEVDA.DANVIFGAIDDESL SNPLLD.HSSMCGARGVLINITGGPDMTLFEVDNAANRIREEVDNIDANIIFGSTFNPEL ANPLLD.EVSLKGAKAVLVNVTGGMDMTLLEVDEAANAISDQVDP.EANIIFGAAFDPSL  Z  CNPLLD.ETSLRGARGVLVNITGGTDMTLFEIDAAANRIREQVDP.DANIIFGSAFDASM ANPLLG.DISIKDAKGMIVNITGGSDLTLFEVDEAAERVTRELDDPHANIIFGSTFDDSL NNPLLGGDFSVRSAKGMLVNITGGKDLTLVEVDEAAERVTRELDDPHANIIFGSSFDESL  QSPLLD.IGIERATGIVWNITGGSDLTLFEVNAAAEVIYDLVDP.SANLIFGAVVDPSL QSPLLD.IGIERATGIVWNITGGSDLTLFEVNAAAEVIYDLVDP.TANLIFGAVVDPAL QSPLLD.VGIERATGIVWNITGGSDMTLFEVNAAAEVIYDLVDP.NANLIFGAVVDEAL QSPLLD.VGIERATGIVWNITGGSDMTLFEVNAAAEVIYDLVDP.NANLIFGAVVDEAL SSPLLD.FPIEKARGIVFNITGGSDMTLFEVNAAAEVIYDLVDP.NANLIFGAVVDEAL SSPLLD.FPITRAKGIVFNITGGSDMSLQEINAAAEVIYEAVDS.NANIIFGAVVDDM SSPLLD.FPITRAKGIVFNITGGSDLTLHEVNAAAEVIYENVDQ.DANIIFGAVIDDRL SSPLLE.CSIEGARGVVFNITGGSDLTLHEVNAAAETIYEVVDP.NANIIFGAVIDDRL SSPLLE.SSIQGAKGVVFNVTGGTDLTLHEVNAAAETIYEVVDP.SANIIFGAVIDDRL LAPLIG.SSIQSATGVVYNITGGKDITLQEVNRVSQVVTSLADP.SANIIFGAVVDDRY LAPLIG.SSIQSATGVVYNITGGKDITLQEVNRVSQVVTSLADP.SANIIFGAVVDERY LAPLIG.SSIQSATGVVYNITGGKDITLQEVNRVSQVVTSLADP.SANIIFGAVVDERY
SEQ ID NO: 11  SEQ ID NO: 12  SEQ ID NO: 13  SEQ ID NO: 14  SEQ ID NO: 15  Mitochondrial Ft:  SEQ ID NO: 16  SEQ ID NO: 16  SEQ ID NO: 17  SEQ ID NO: 2  Chloroplast FtsZ  SEQ ID NO: 19  SEQ ID NO: 20  SEQ ID NO: 21  SEQ ID NO: 21  SEQ ID NO: 22  SEQ ID NO: 22  SEQ ID NO: 23  SEQ ID NO: 23  SEQ ID NO: 24  SEQ ID NO: 25  SEQ ID NO: 25  SEQ ID NO: 26  SEQ ID NO: 27  SEQ ID NO: 28  SEQ ID NO: 28  SEQ ID NO: 28  SEQ ID NO: 29	ANPLLD. ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP. DANIILGATFDEAL ANPLLD. ETSMKGAQGLLISITGGRDLTLFEVDEAATRIREEVDP. DANIILGATFDEAL ANPLLD. DTSMRGARGLLISITGGRDMTLFEVDEAANRIREEVDA. DANVIFGAIDDESL SNPLLD. HSSMCGARGVLINITGGPDMTLFEVDNAANRIREEVDNIDANIIFGSTFNPEL ANPLLD. EVSLKGAKAVLVNVTGGMDMTLLEVDEAANAISDQVDP. EANIIFGAAFDPSL  Z  CNPLLD. ETSLRGARGVLVNITGGTDMTLFEIDAAANRIREQVDP. DANIIFGSAFDASM ANPLLG. DISIKDAKGMIVNITGGSDLTLFEVDEAAERVTRELDDPHANIIFGSTFDDSL NNPLLGGDFSVRSAKGMLVNITGGKDLTLVEVDAAAQRITSEIEDEDANVIFGSSFDESL  OSPLLD. IGIERATGIVWNITGGSDLTLFEVNAAAEVIYDLVDP. SANLIFGAVVDPSL QSPLLD. IGIERATGIVWNITGGSDLTLFEVNAAAEVIYDLVDP. TANLIFGAVVDPSL QSPLLD. VGIERATGIVWNITGGSDMTLFEVNAAAEVIYDLVDP. NANLIFGAVVDPAL QSPLLD. VGIERATGIVWNITGGSDMTLFEVNAAAEVIYDLVDP. NANLIFGAVVDEAL SSPLLD. FPIEKARGIVFNITGGODMTLHEINSAAEVIYDLVDP. NANLIFGAVVDEAL SSPLLD. FPITRAKGIVFNITGGSDMSLQEINAAAEVIYENVDQ. DANIIFGANVDDM SSPLLD. FPITRAKGIVFNITGGSDLTLHEVNAAAEVIYENVDQ. DANIIFGAVVDDRL SSPLLE. CSIEGARGVVFNITGGSDLTLHEVNAAAETIYEVVDP. NANLIFGAVIDDRL SSPLLE. SSIQGAKGVVFNVTGGTDLTLHEVNVAAEIIYEVVDP. NANLIFGAVIDDRL LAPLIG. SSIQSATGVYNITGGKDITLQEVNRVSQVVTSLADP. SANIIFGAVVDDRY LAPLIG. SSIOSATGVYNITGGKDITLQEVNRVSQVVTSLADP. SANIIFGAVVDDRY LAPLIG. SSIOSATGVYNITGGKDITLQEVNRVSQVVTSLADP. SANIIFGAVVDDRY

Bacterial F	tsZ	300			
SEQ ID NO:	11	E.GLIRVSVVATGI			
SEQ ID NO:	12	E.GLIRVSVVATGI			
SEQ ID NO:	13	E.GVIRVSVVATGI			
SEQ ID NO:	14	K.GIIRVSVVATGI			
SEQ ID NO:	15	E.GVIRVSVVATGM			
Mitochondrial FtsZ					
SEQ ID NO:	16	Q.GRLRVSVLATGI			
SEQ ID NO:	4	G.GKLRVSVVATGI			
SEQ ID NO:	17	Q.GSIRVSIVATGI			
SEQ ID NO:	2				
Chloroplast	FtsZ				
SEQ ID NO:	18	C.GQVSITLIATGF			
SEQ ID NO:	19	S.GQVSITLIATGF			
SEQ ID NO:	20	S.GQVSITLIATGF			
SEQ ID NO:	21	H.GQVSITLIATGF			
SEQ ID NO:	22	H.DQISITLIATGF			
SEQ ID NO:	23	EN.EISITVVATGF			
SEQ ID NO:	24	TSGEVSITVLATGF			
SEQ ID NO:	25	Q.GEVRITVIATGF			
SEQ ID NO:	26	Q.GEMRITVIATGF			
SEQ ID NO:	27	.TGEIHVTIIATGF			
SEQ ID NO:	28	.TGEIHVTIIATGF			
SEQ ID NO:	29	.NGEIHVTIIATGF			
SEQ ID NO:	30	.NGEIHVTIIATGF			
SEQ ID NO:	31	.NGEIQVTLIATGF			
SEQ ID NO:	32	.NGEIQVTLIATGF			

